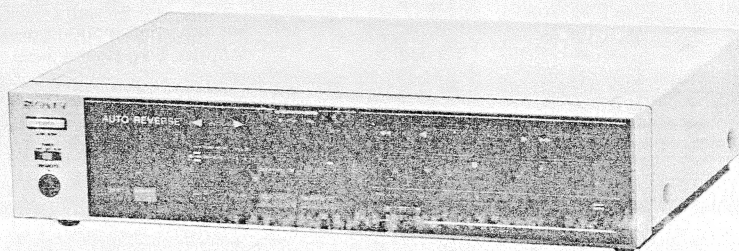


TC-V7

US Model
Canadian Model
AEP Model
UK Model
E Model



'Dolby' and the double-D symbol are the trade marks of Dolby Laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

STEREO CASSETTE DECK

SPECIFICATIONS

Recording system 4-track 2-channel stereo
Fast-forward and rewind time Approx. 100 sec. (with C-60 cassette)
Bias frequency 105 kHz
Signal-to-noise ratio (NAB, at peak level)

Cassette	Dolby NR switch	OFF	B-TYPE ON	C-TYPE ON
TYPE IV (Sony METALLIC)		58 dB	65 dB	71 dB
TYPE III (Sony FeCr)		59 dB	66 dB	72 dB
TYPE II (Sony UCX)		57 dB	64 dB	70 dB
TYPE I (Sony BHF)		54 dB	61 dB	67 dB

Total harmonic distortion

1.0% (with Sony METALLIC and FeCr cassettes)

Frequency response DOLBY NR OFF

- With TYPE IV cassette (Sony METALLIC)
20 - 17,000 Hz
30 - 15,000 Hz (± 3 dB)
30 - 13,000 Hz (± 3 dB, 0 VU recording)
30 - 15,000 Hz (DIN)
- With TYPE III cassette (Sony FeCr)
20 - 16,000 Hz
30 - 15,000 Hz (± 3 dB)
30 - 15,000 Hz (DIN)
- With TYPE II cassette (Sony UCX)
20 - 16,000 Hz
30 - 15,000 Hz (± 3 dB)
30 - 15,000 Hz (DIN)
- With TYPE I cassette (Sony BHF)
20 - 15,000 Hz
30 - 14,000 Hz (DIN)

0 dB = 0.775 V

Tape Transport Mechanism Type TCM-130RH1

— Continued on Page 2 —

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.



SONY®

SERVICE MANUAL

Wow and flutter	0.065% WRMS (NAB) ±0.2% (DIN)
Inputs	Line inputs (phono jacks) Sensitivity 77.5 mV (-20 dB) Input impedance 50 k ohms
Outputs	Line outputs (phono jacks) Output level 0.435 V (-5 dB) at load impedance 50 k ohms Load impedance over 10 k ohms

General

Power requirements	AEP model: 220 V ac, 50/60 Hz (240 V ac adjustable by authorized Sony personnel) UK model: 240 V ac, 50/60 Hz (220 V ac adjustable by authorized Sony personnel) US, Canadian model: 120V ac, 60 Hz E model: 110, 120, 220 or 240 V ac adjustable, 50/60 Hz
AC outlet	US, Canadian, AEP model: 1 unswitched, 100 watts max. UK model: 1 switched, 100 watts max.
Power consumption	AEP, UK model: 22 watts US, Canadian model: 20 watts E model: 21 watts
Dimensions	Approx. 355 × 80 × 280 mm (w/h/d) (14 × 3 1/4 × 11 1/8 inches) including projecting parts and controls
Weight	Approx. 5 kg (11 lbs 1 oz)

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

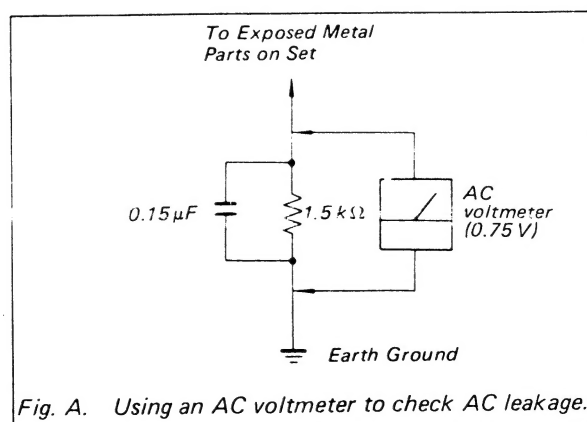


Fig. A. Using an AC voltmeter to check AC leakage.

US Model
Canadian Model
AEP Model
E Model
UK Model

SUPPLEMENT

File this supplement with the service manual.

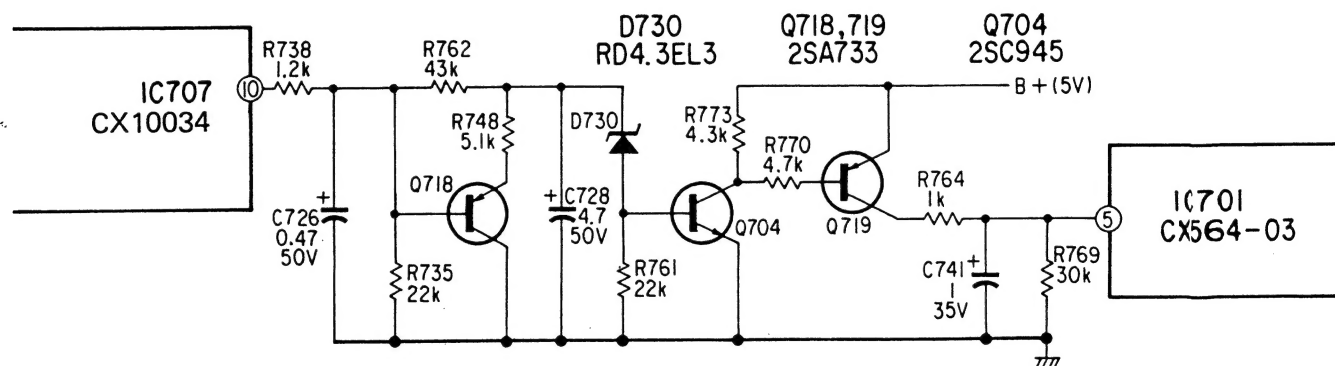
Subject: SYSTEM CONTROL CIRCUIT CHANGE

- System control IC (IC701) and circuit have been changed.
- When replacing IC701, Use replacement IC with same type No. as original IC.

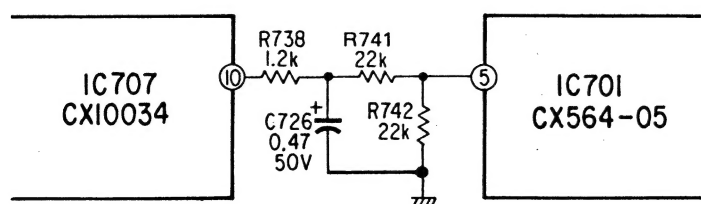
No. 1
June, 1983

1. CHANGED CIRCUIT

- Former

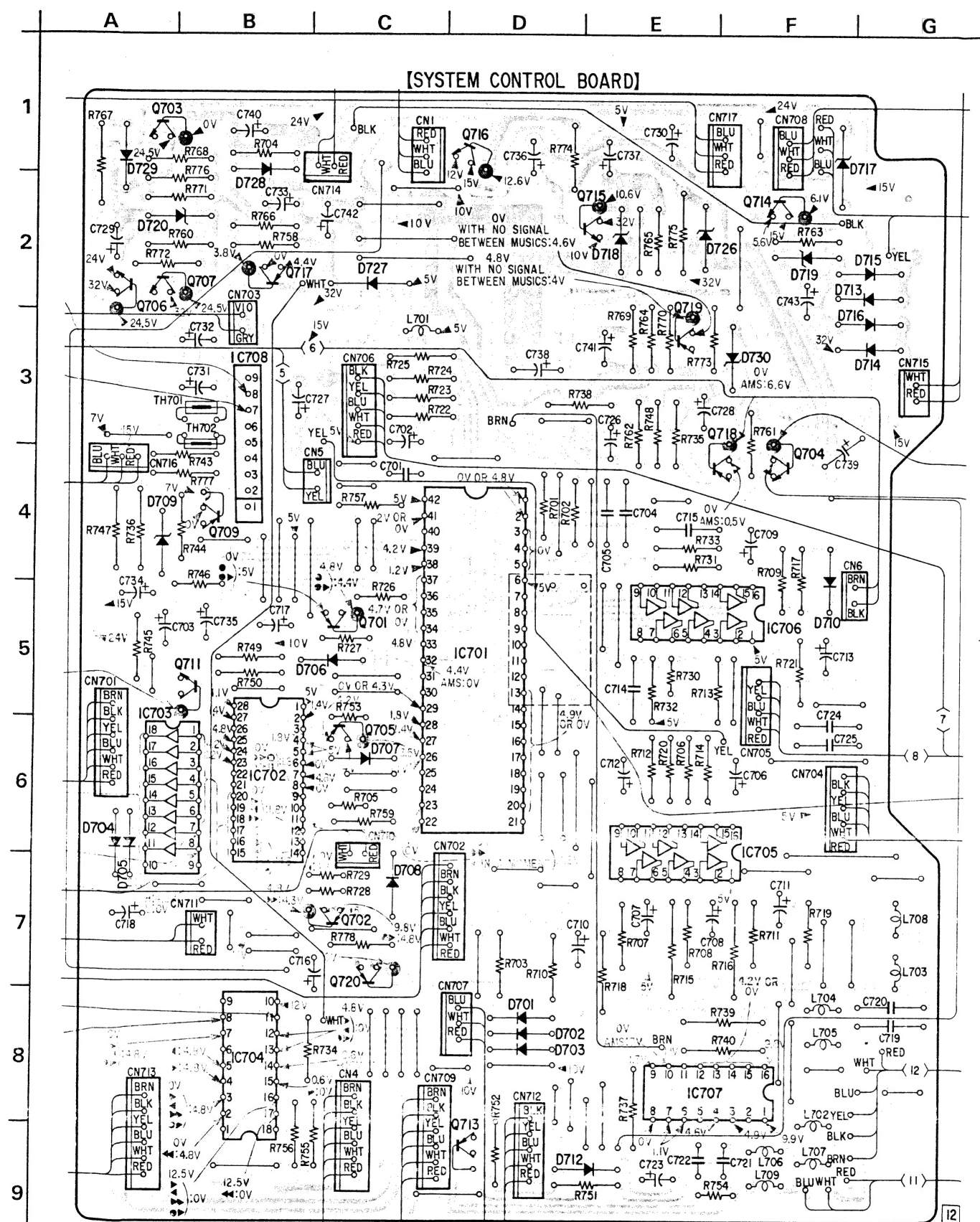


- New

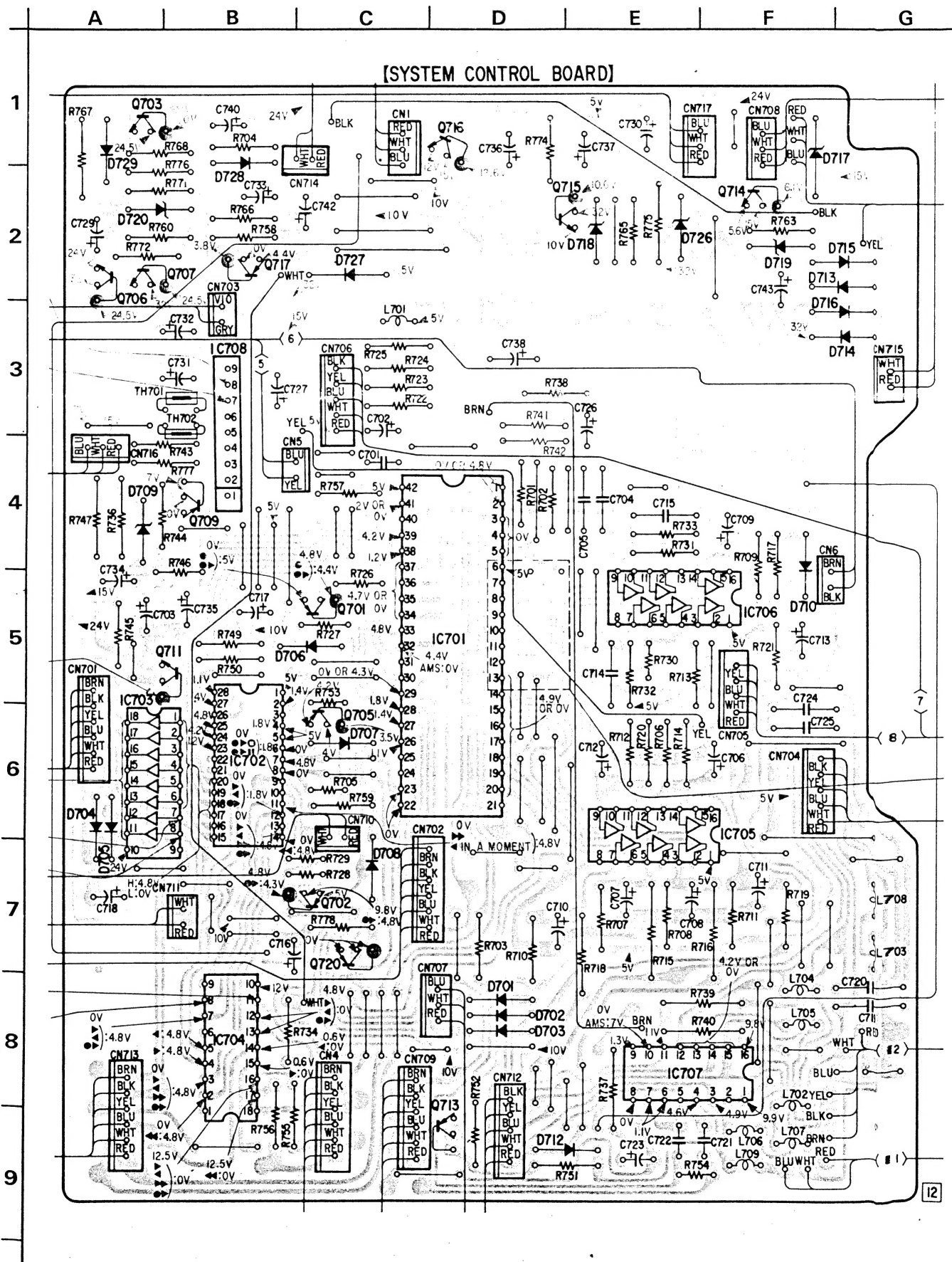


2. CHANGED MOUNTING DIAGRAM

- **Former**



• New



3. CHANGED PARTS

Ref.No.	Former Parts		New Parts		Remarks
	Description		Part No.	Description	
C728	TANTALUM	4.7MF 16V	.....		DELETED
C741	TANTALUM	1MF 35V	.....		DELETED
D730	DIODE	RD4.3EL3	.....		DELETED
IC701	IC	CX564-03	8-755-640-50	IC CX564-05	CHANGED
R735	CARBON	22K	.....		DELETED
R741	.....		1-246-505-00	CARBON 22K	ADDED
R742	.....		1-246-505-00	CARBON 22K	ADDED
R748	CARBON	5.1K	.....		DELETED
R761	CARBON	22K	.....		DELETED
R762	CARBON	43K	.....		DELETED
R764	CARBON	1K	.....		DELETED
R769	METAL	30K	.....		DELETED
R770	CARBON	4.7K	.....		DELETED
R773	CARBON	1K	.....		DELETED
Q704	TRANSISTOR	2SC1364	.....		DELETED
Q718	TRANSISTOR	2SA1027R	.....		DELETED
Q719	TRANSISTOR	2SA1027R	.....		DELETED

4. CHANGED FUSE (E Model)

Former		New	
F1	△ 1-532-078-00 FUSE, TIME-LAG	→	△ 1-532-453-XX FUSE, GLASS TUBE
F2	△ 1-532-078-00 FUSE, TIME-LAG	→	△ 1-532-453-XX FUSE, GLASS TUBE

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

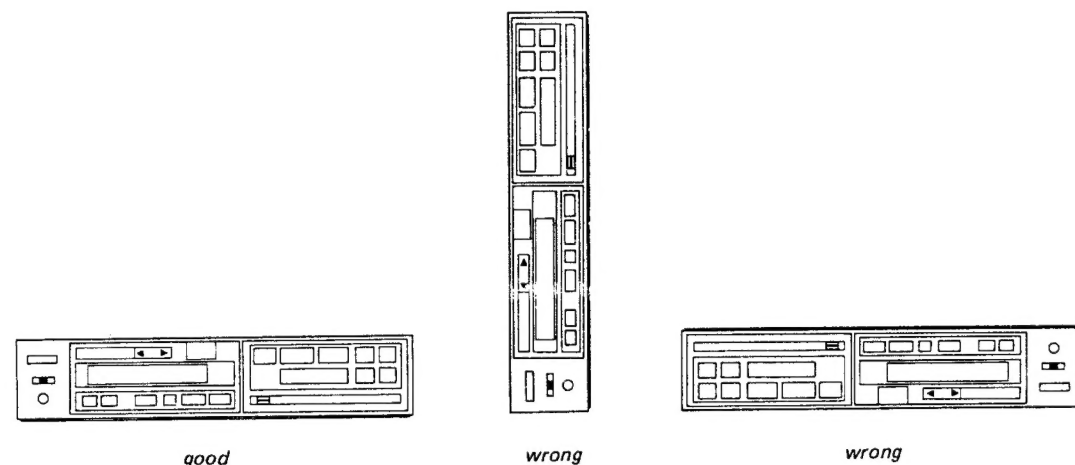
Sony Corporation
Consumer Products Group
Technical Support Dept.

SECTION 1 OUTLINE

1-1. FEATURE

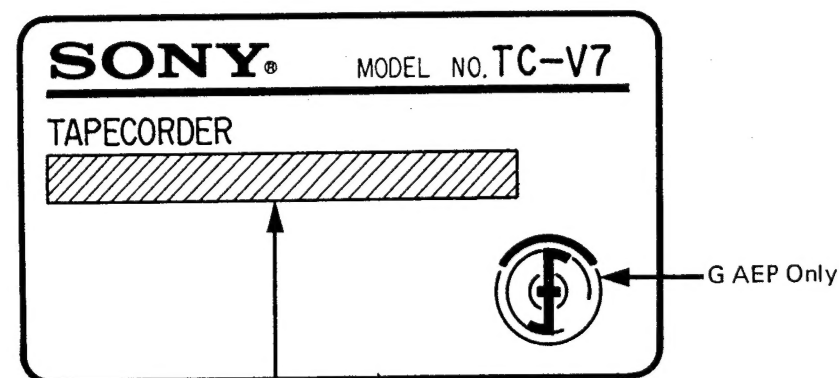
NOTES ON REPAIR

When the mechanism section is operated with the set in an upside-down position, misoperation may result. For repair while operating the mechanism section, perform with the set in its normal position or standing on its side.



MODEL IDENTIFICATION

—Specification label on jack plate—



US, Canadian : AC: 120V 60Hz 20W
AEP, G AEP : AC: 220V ~ 50/60Hz 22W
UK : AC: 240V ~ 50/60Hz 22W
E : AC: 110, 120, 220, 240V ~ 50/60Hz 21W

Auto-reverse playback with roto-bilateral record/playback head

Continuous playback of both sides of the cassette is possible without turning the cassette over. When the tape reaches its end, the roto-bilateral record/playback head reverses position and the other side will be played back automatically. The side being played back can be changed instantly during playback by simply pressing the forward or reverse play button. The ▶ or ◀ indicator shows the playback direction. The roto-bilateral head assures the same performance characteristics in either tape transport direction.

Newly-developed Laser Amorphous head

The record-playback head is made of a special amorphous magnetic alloy developed by Sony, and its cores are solidly welded by laser. This new highly durable head provides a wider dynamic range and a more extended frequency response, especially in the high-frequency range. The head is designed to take full advantage of the potential of metal tapes.

Ultra slim cabinet

Touch a button and the cassette module slides smoothly out. The use of this cassette module with a linearskating power loading mechanism makes it possible to reduce the height of the cabinet to 70mm.

Blank skip function

Blank spaces of at least 10 seconds long can be skipped in either fast-forward or fast-reverse mode so that only the recorded portions of the tape are played back.

AMS (Automatic Music Sensor)

The AMS locates a selection as far ahead as 9 selections or as far back as 8 selections and plays the selection back automatically.

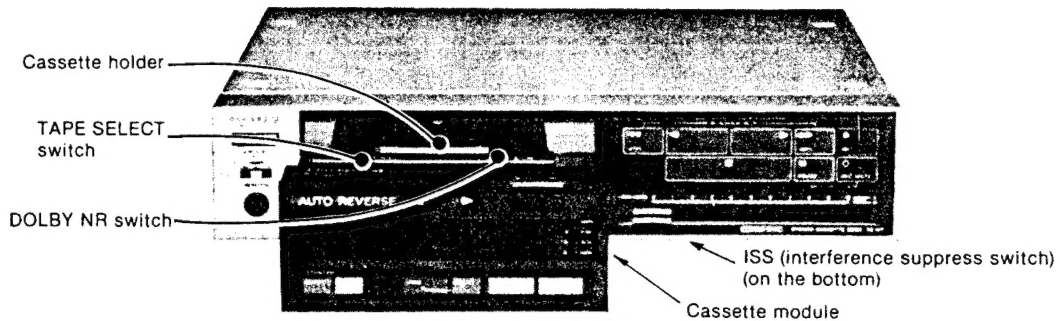
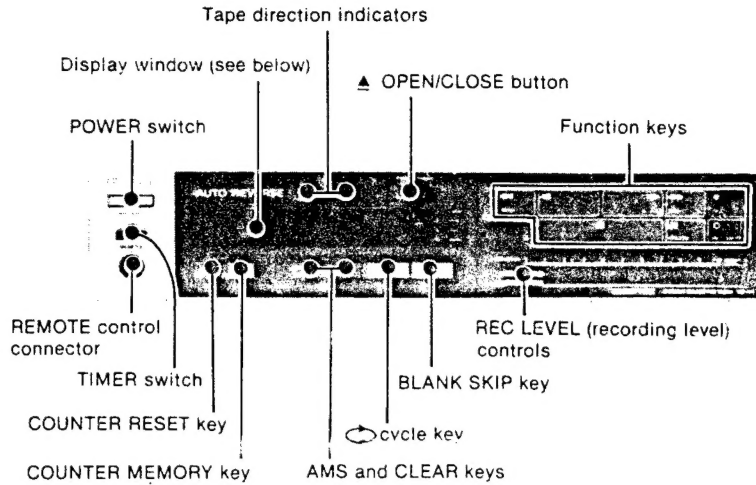
Cycle Play

Using the cycle key, both sides of the cassette can be played back five times in succession.

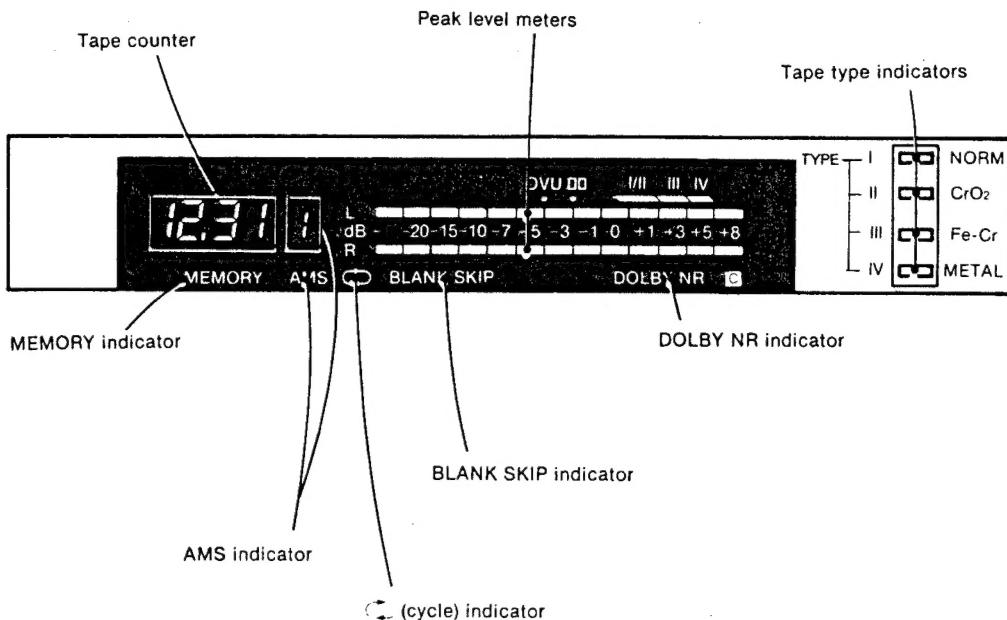
Other useful functions

- The newly-developed C-type Dolby NR system which reduces tape noise twice as effectively as the conventional B-type system is incorporated.
- The digital linear counter indicates the elapsed recording or playback time in minutes and seconds, and indicates the recording time remaining with a minus sign.
- The peak level meters, digital linear counter, and other indicators in use are all displayed in the bright FL-display window.
- The automatic tape select system adjusts are cassette deck to the optimum recording and playback characteristics for each tape type.
- A timer switch is provided to turn the deck on and off at times preset on an optional timer.
- Various remote control operations are possible using the optional RM-70 remote control unit, the RM-65 synchro remote control unit (for synchronized operation with the turntable) or the ST-V7 system control tuner (for remote control of the audio system).

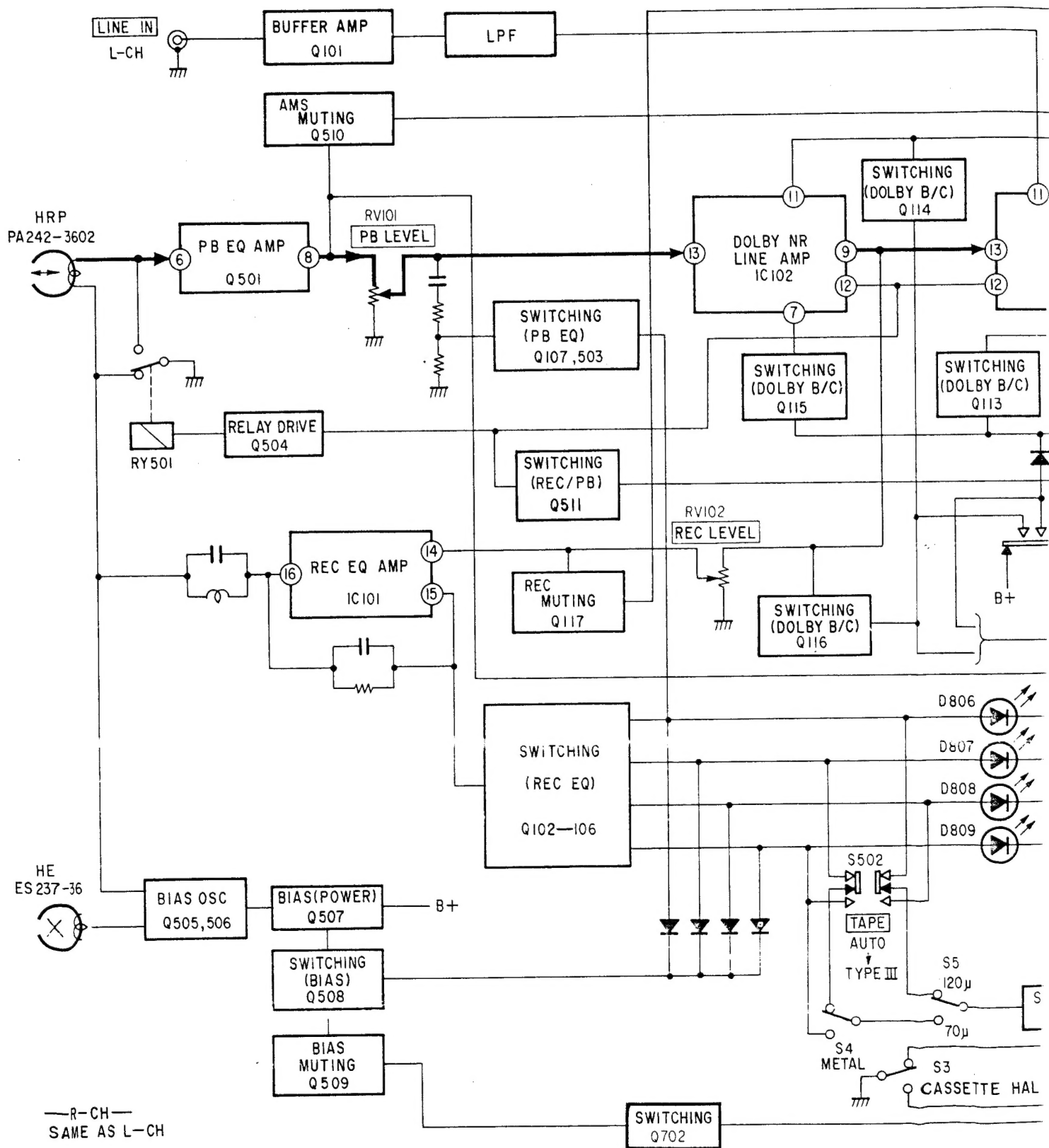
1-2. FUNCTION OF CONTROL

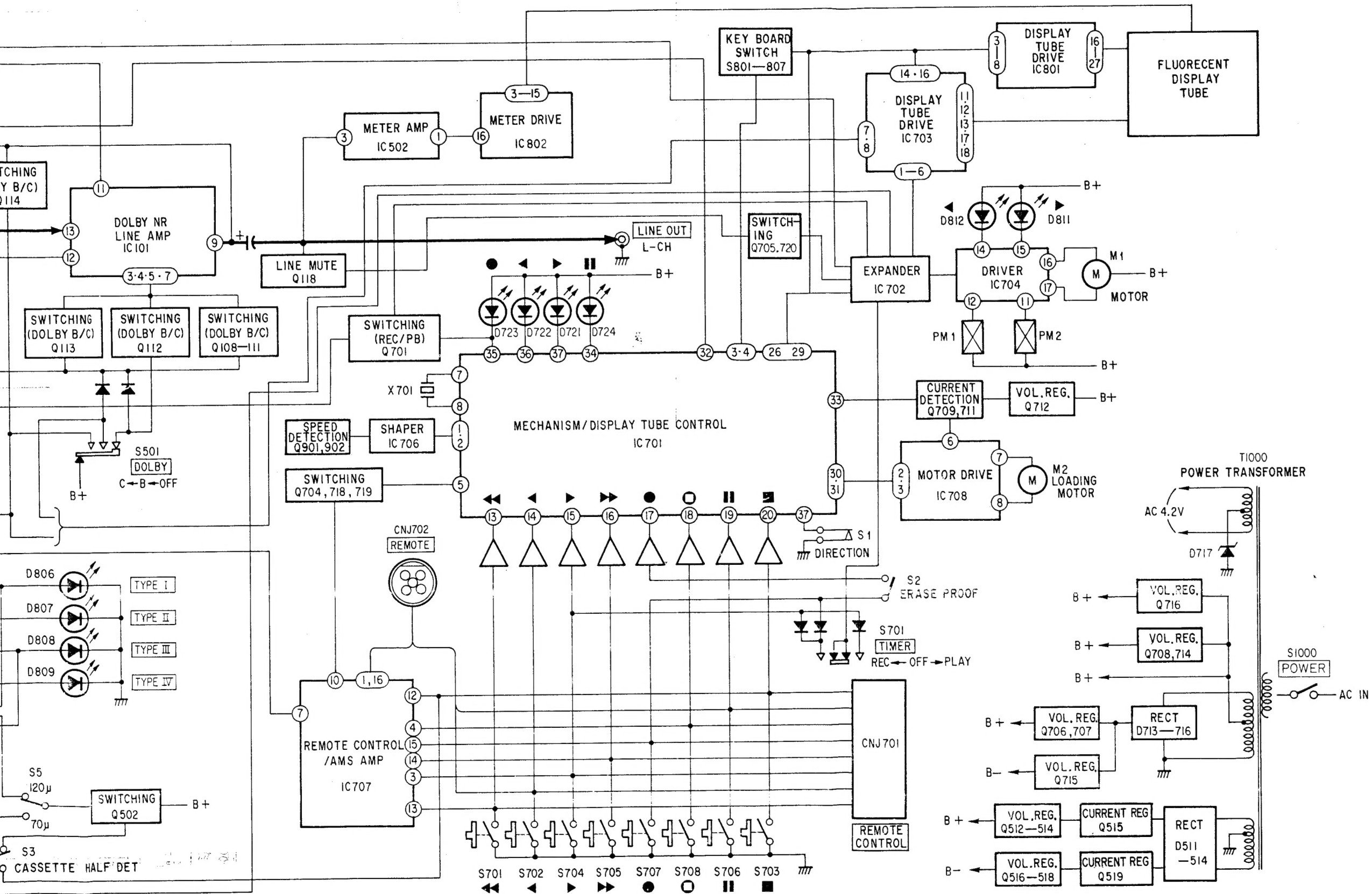


Display window



1-3. BLOCK DIAGRAMS





SECTION 2

OPERATION DESCRIPTION

2-1. MECHANICAL SECTION OPEN/CLOSE OPERATION

The mechanical section on this set can be opened and closed simply by pushing the OPEN/CLOSE button, due to the linear skating structure.

IC708 is for driving the loading motor (M2) which moves the mechanism. Pins ② and ③ are input pins and ⑦ and ⑧ are output pins. Pin ⑥ is the power supply pin and ⑤ is the ground.

The forward and reverse rotation of the motor is performed by the 1 and 0 combination of input pins ② and ③. Microcomputer IC701 inputs to pins ② and ③. The truth table for IC708 is as follows:

IC708 pin no.	Input		Output	
	②	③	⑦	⑧
during OPEN	H	L	H	L
during CLOSE	L	H	L	H
Stop	H	H	L	L

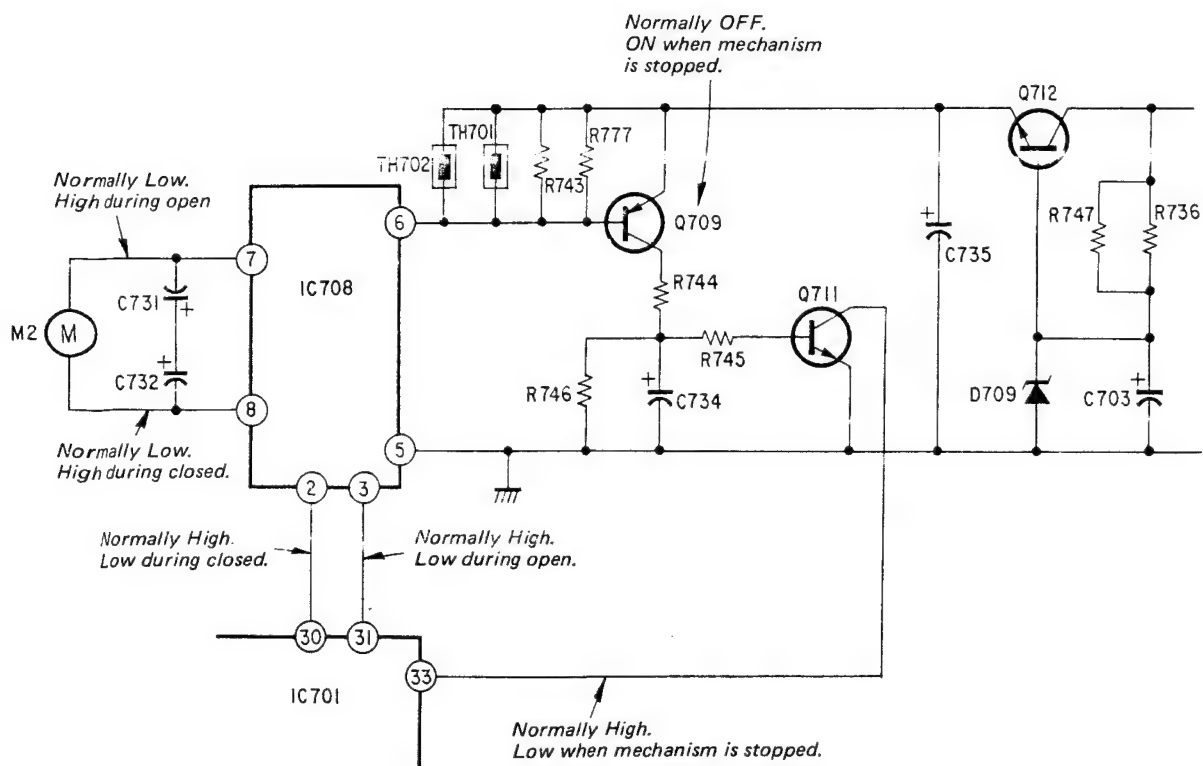
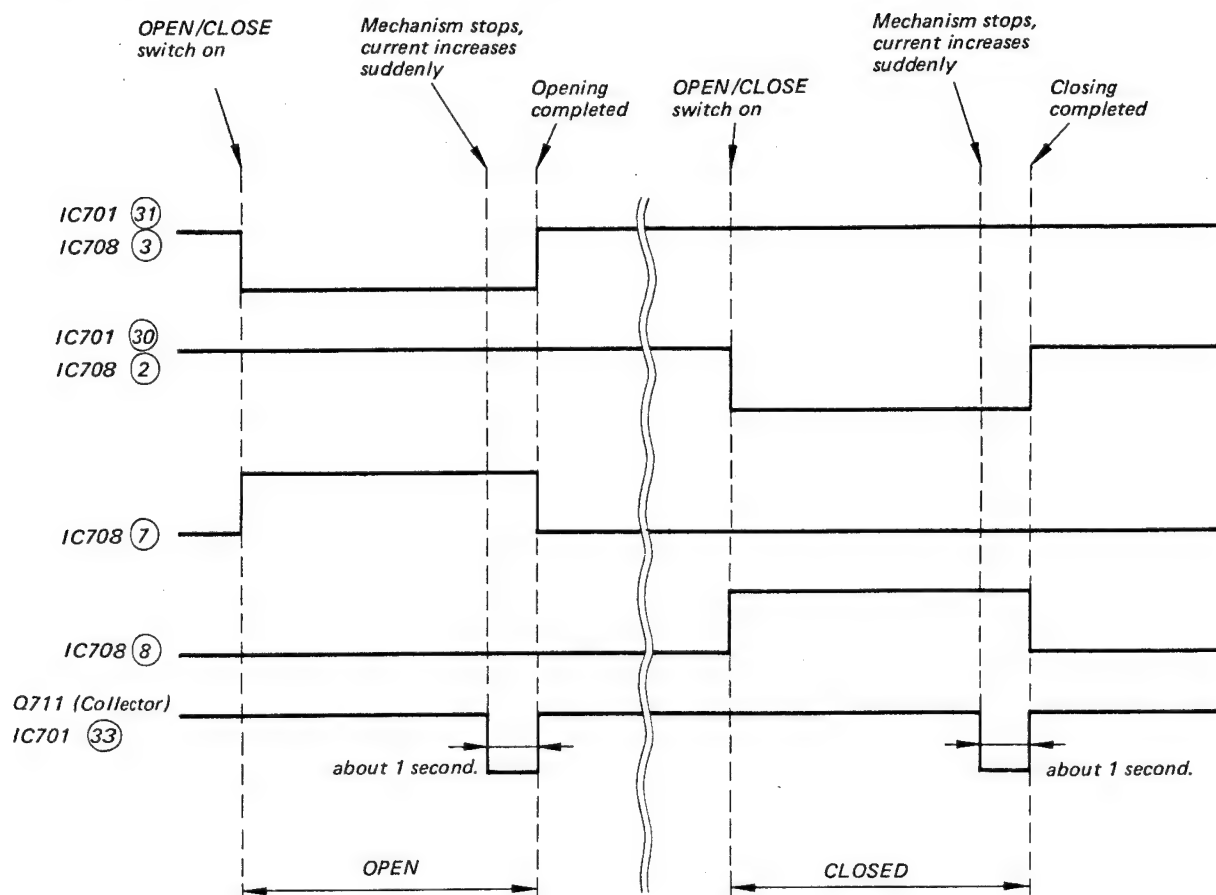
(1) CLOSE → OPEN

When the OPEN/CLOSE button is pressed while the mechanism is closed, IC701 pin ③① goes from high to low, IC708 pin ⑦ goes high, pin ⑧ goes low, the motor rotates and the mechanism opens. Even when the mechanism opens completely and stops, IC708 pin ⑦ and ⑧ remain high and low, and voltage continues to be applied to the motor, so the current flowing to IC708 pin ⑥ increases suddenly. When the current increases, Q709 base potential drops and Q709 turns on. When Q709 goes on, Q711 turns on. This causes IC701 pin ③③ to drop to 0V, and "Mechanism open" is input to IC701. When IC701 pin ③③ becomes 0V, IC701 pin ③① goes from low to high and IC708 pins ⑦ and ⑧ go low. Voltage ceases to be applied to the motor and opening is completed.

(2) OPEN → CLOSE

When the OPEN/CLOSE button is pressed while the mechanism is open, IC701 pin ③① goes from high to low, IC708 pin ⑦ goes low and pin ⑧ goes high, the motor rotates in reverse and the mechanism closes. Even when the mechanism closes completely and stops, IC708 pins ⑦ and ⑧ remain low and high, and voltage continues to be applied to the motor, so the current flowing to IC708 pin ⑥ increases suddenly. When the current increases, Q709 base potential drops and Q709 turns on. When Q709 turns on, Q711 base potential drops and it goes on. This causes IC701 pin ③③ to drop to 0V, and "mechanism closed" is input to IC701. When IC701 pin ③③ becomes 0V, IC701 pin ③① goes from low to high and IC708 pins ⑦ and ⑧ go low. Voltage ceases to be applied to the motor and closing is completed. (When power is turned on and IC701 is reset, IC701 regards the mechanism as closed.)

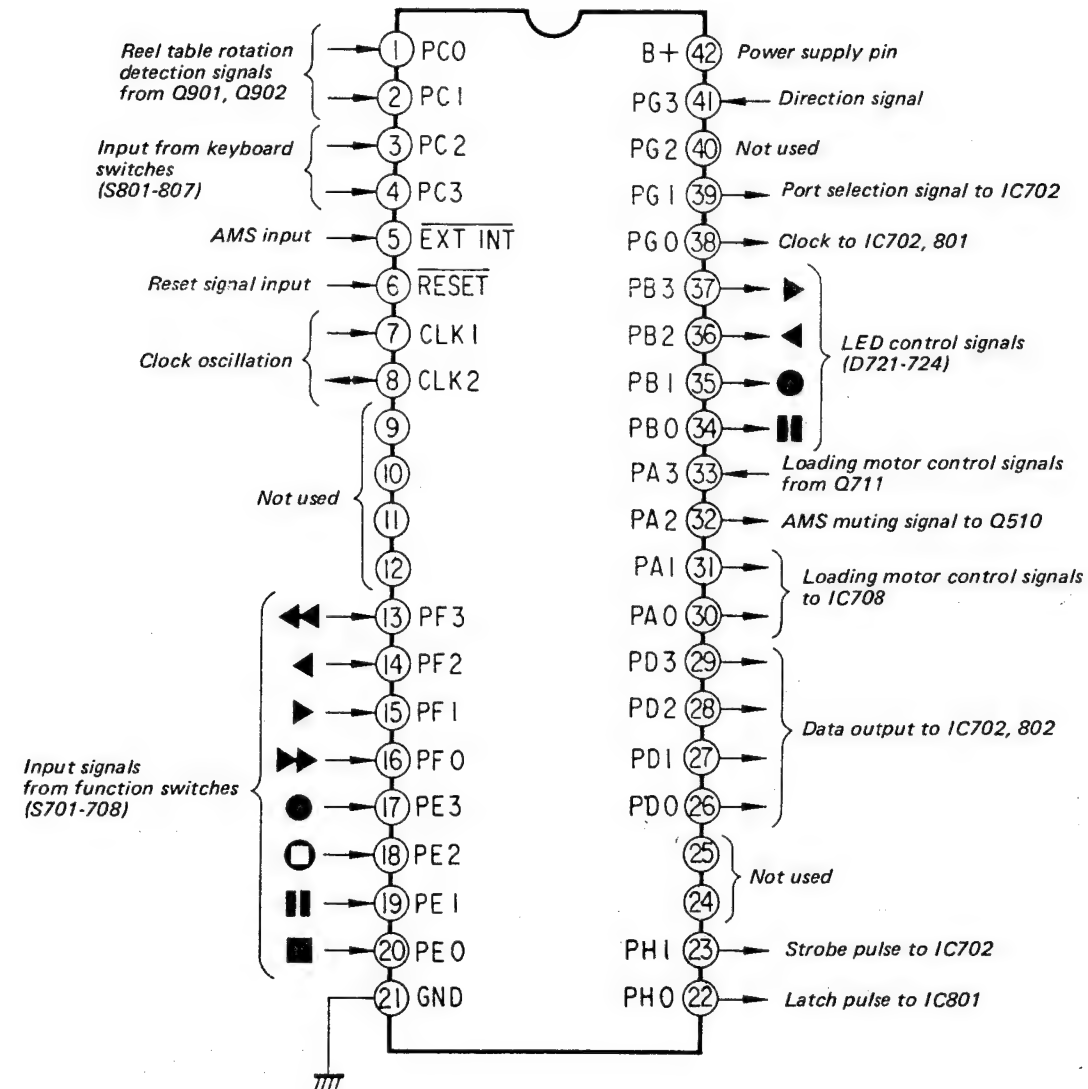
2-2. OPEN/CLOSED OPERATION TIMING CHART



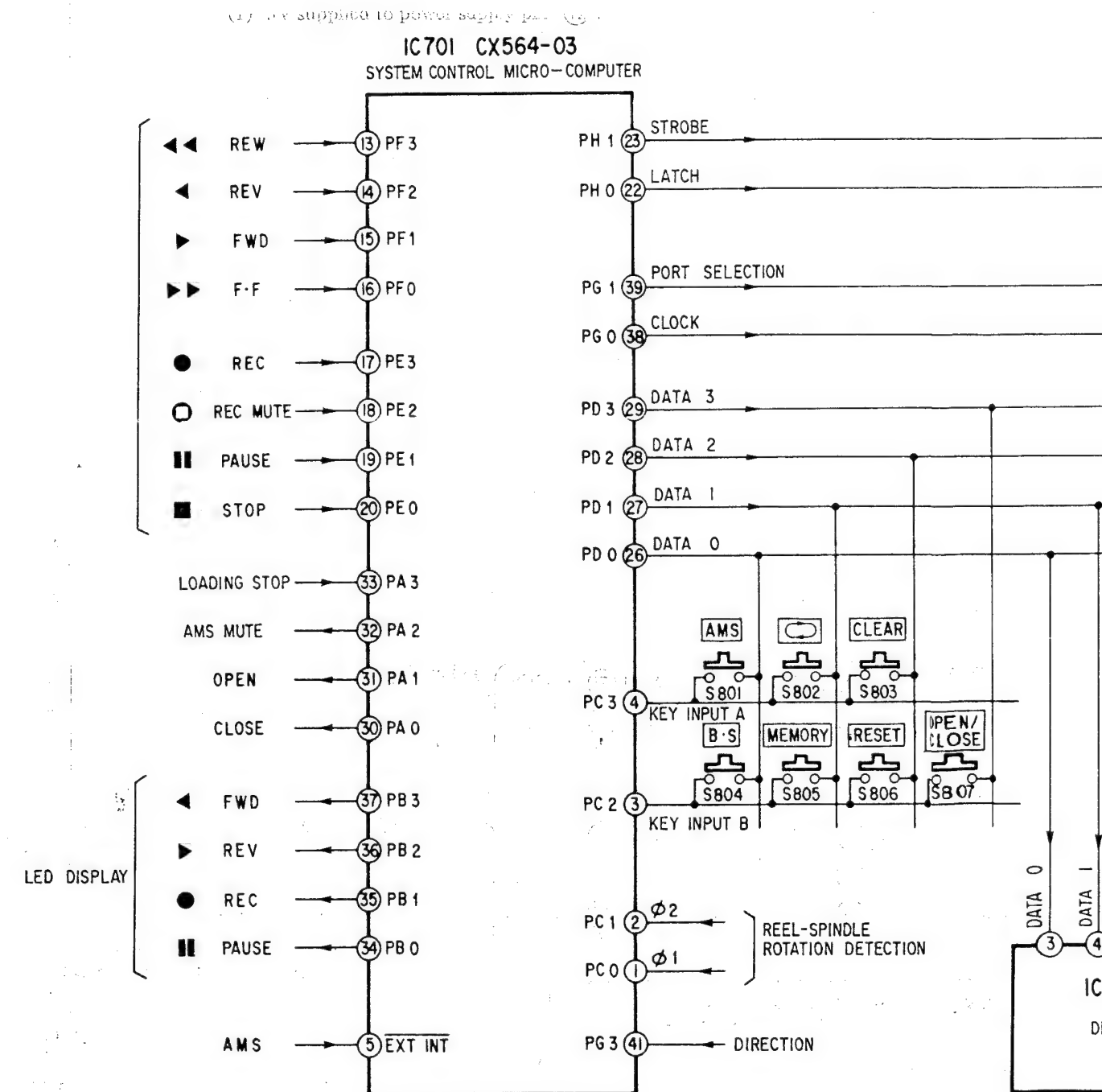
2-3. SYSTEM CONTROL MICROCOMPUTER (IC701)

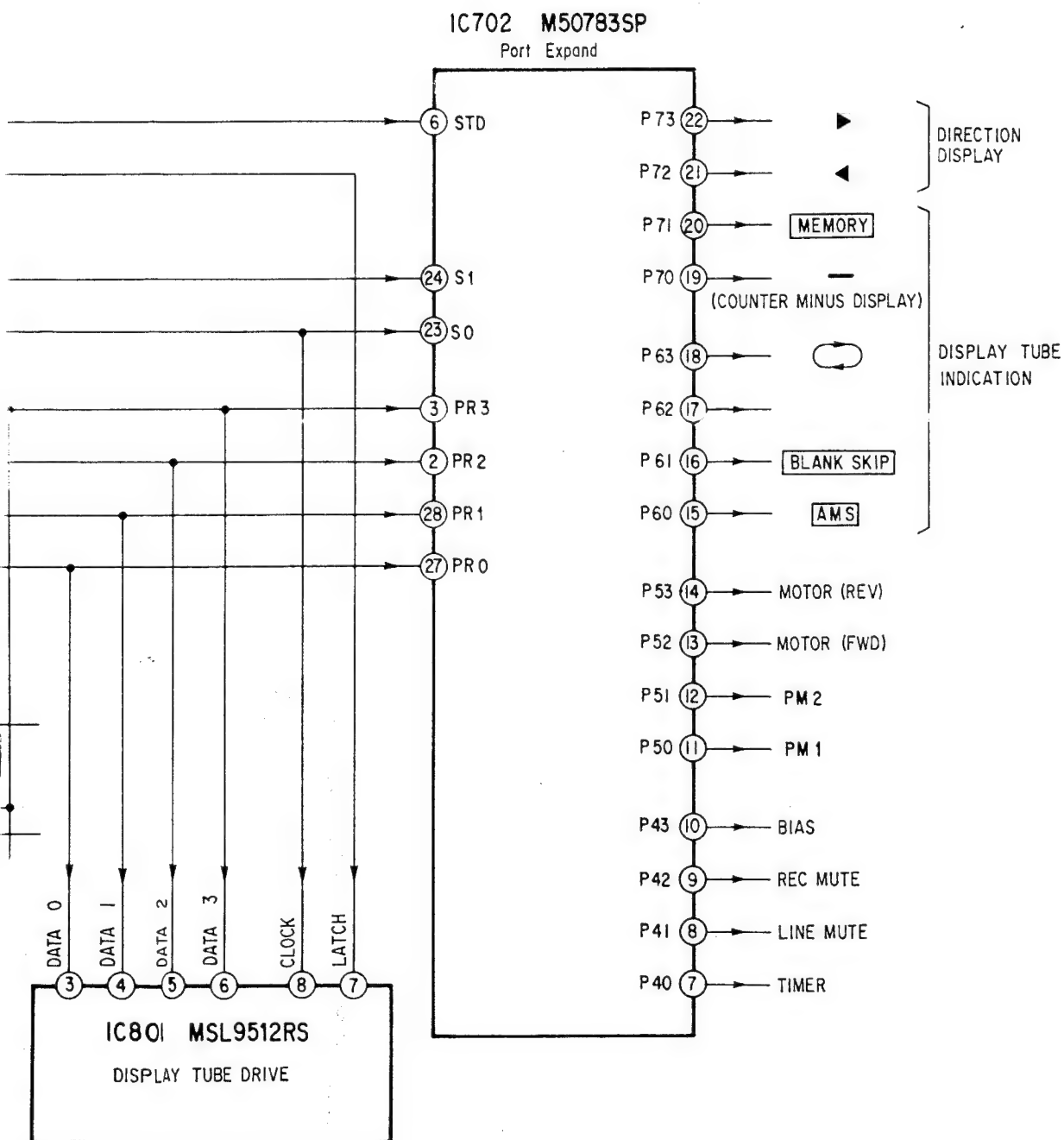
Conditions for IC701 beginning to operate:

- (1) 5V supplied to power supply pin (42).
- (2) Reset pin (6) goes to 5V from 0V.
- (3) Clock pins (7) and (8) are oscillating at 4MHz or 3.99MHz.



2-4. PORT MAP

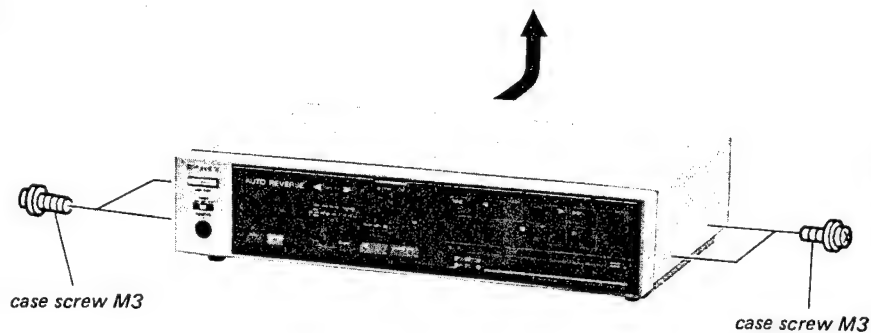




SECTION 3 DISASSEMBLY

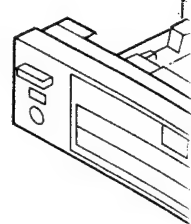
Note: Follow the disassembly procedure in the numerical order given.

CASE REMOVAL

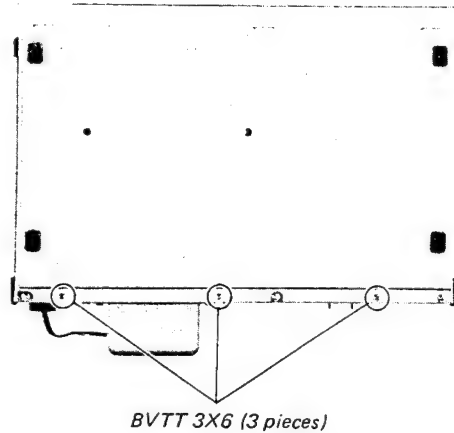


PLAYBACK BOARD REMOVAL

- ① +PTPWH3X5 (2 pieces)

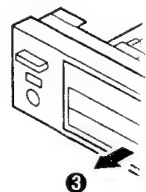


BOTTOM PLATE REMOVAL

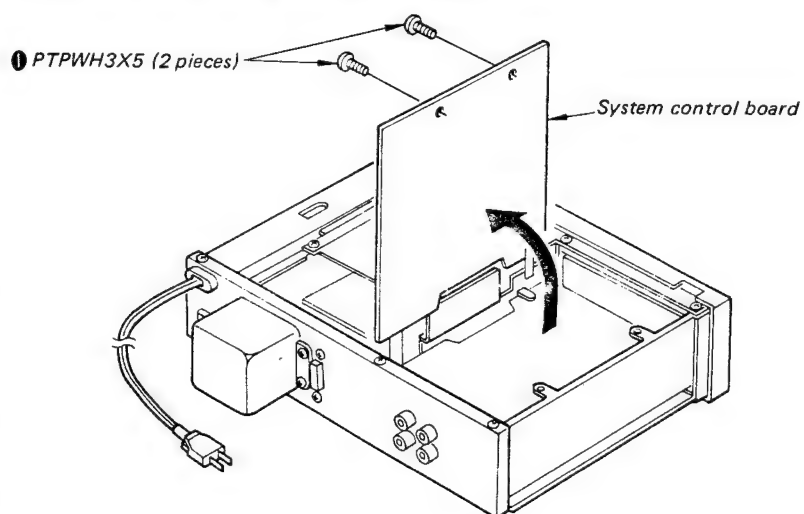


MECHANISM SECTION

- ② Remove the Joint (B)

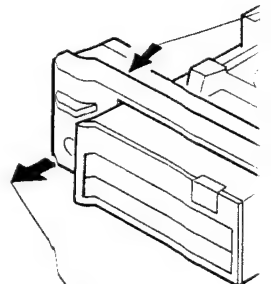


SYSTEM CONTROL BOARD REMOVAL

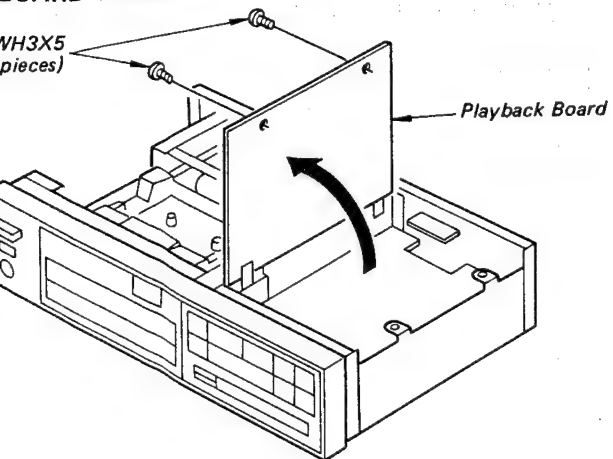


FRONT PANEL REMOVAL

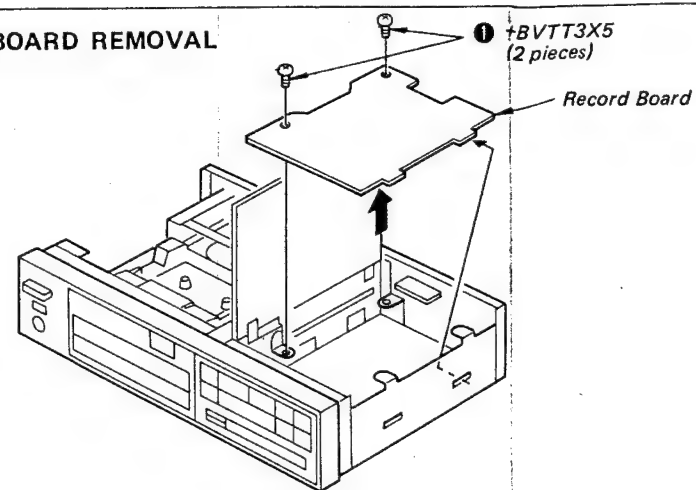
- ② Draw out the front Panel.



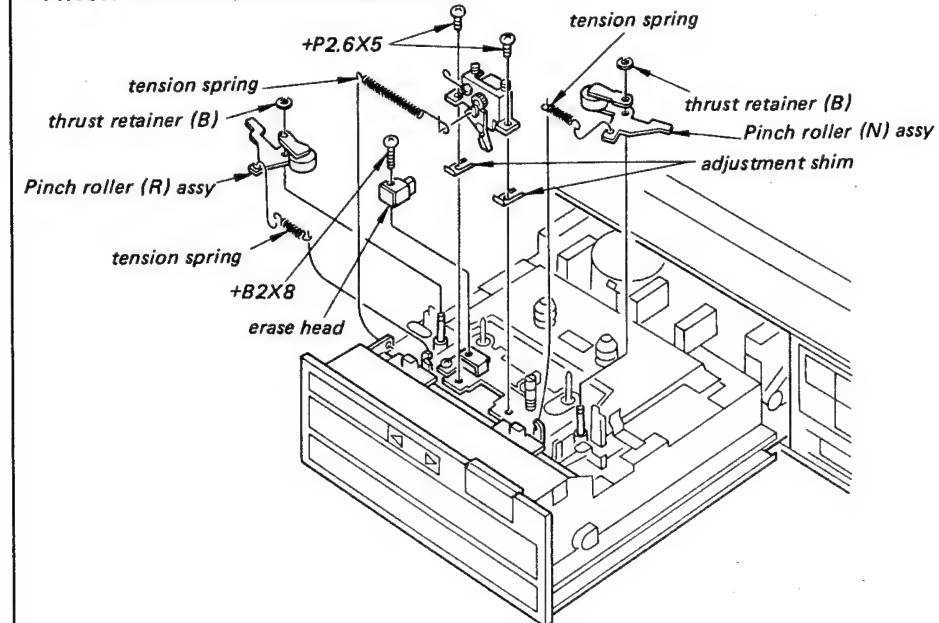
BOARD REMOVAL



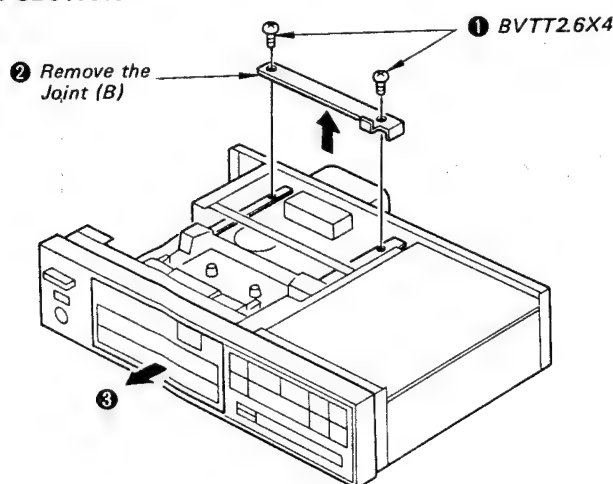
RECORD BOARD REMOVAL



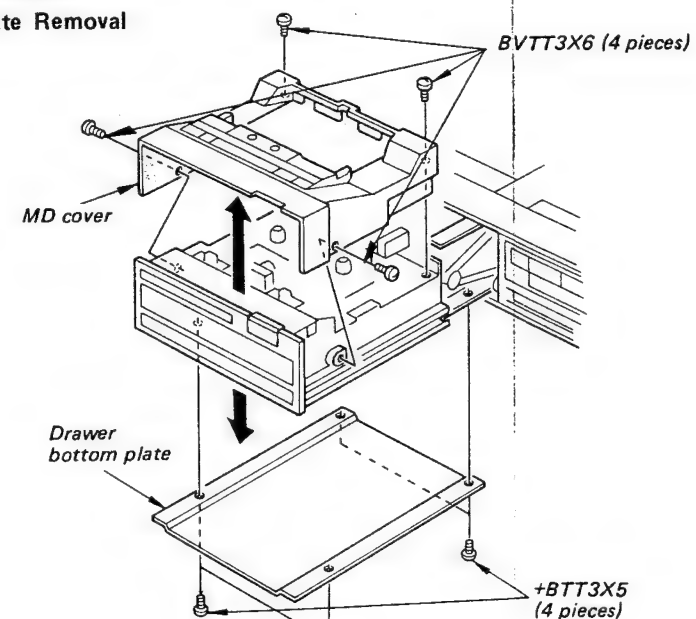
PINCH ROLLER/HEAD REMOVAL



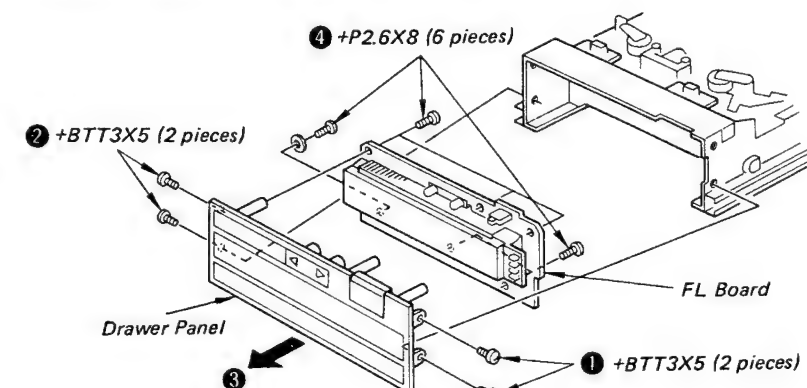
SECTION



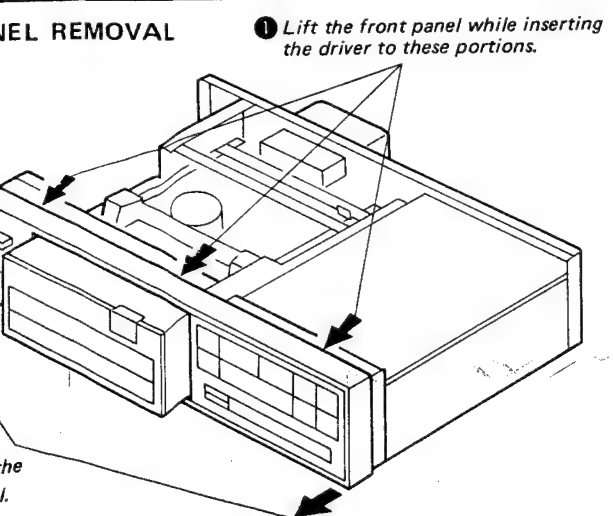
MD Cover/Drawer Bottom Plate Removal



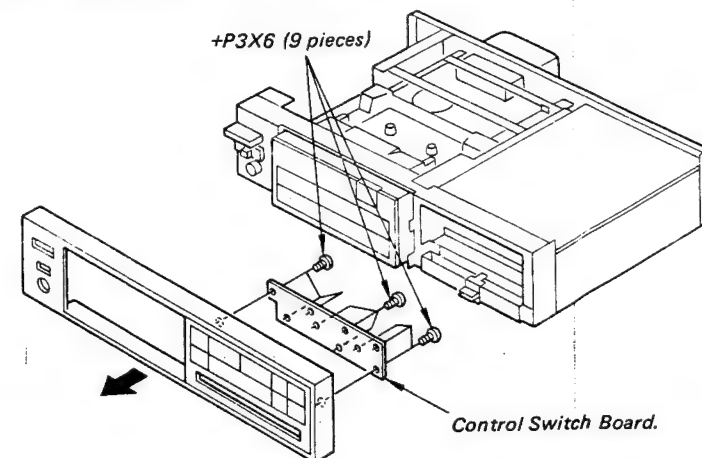
DRAWER PANEL/FL BOARD REMOVAL



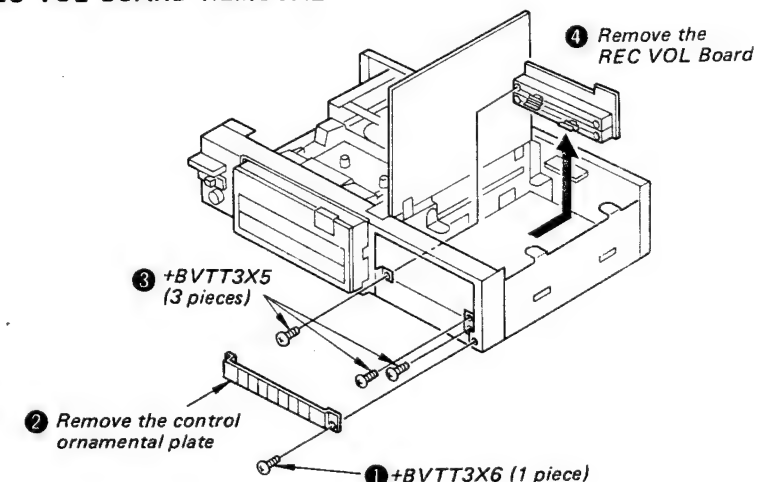
FL BOARD REMOVAL



CONTROL SW BOARD REMOVAL



REC VOL BOARD REMOVAL



SECTION 4 ADJUSTMENTS

4.1. MECHANICAL ADJUSTMENTS

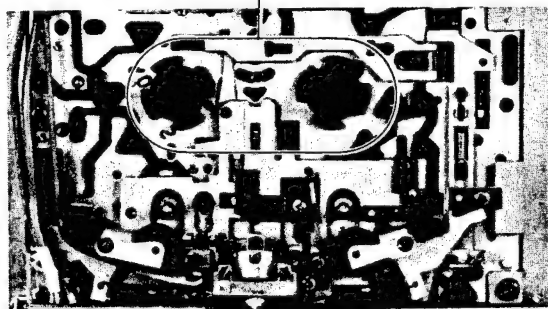
PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque Meter	Torque
Forward	CQ-102C	28-60 g·cm 0.39-0.82 oz·inch
FWD back tension	CQ-102C	2-7 g·cm 0.03-0.1 oz·inch
Reverse	CQ-102RB	28-60 g·cm 0.39-0.82 oz·inch
REV back tension	CQ-102RB	2-7 g·cm 0.03-0.1 oz·inch



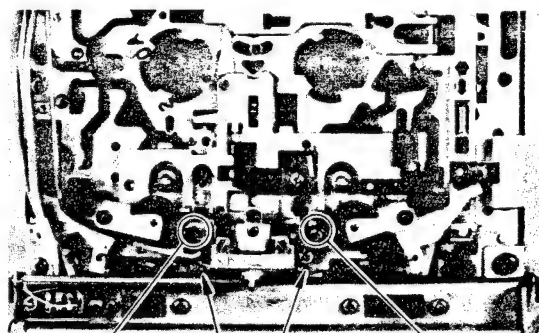
The height adjustment shim of the head holder assembly.

Thick (mm)	Parts No.
0.05	3-307-477-41
0.1	3-307-477-01
0.2	3-307-477-11
0.3	3-307-477-21
0.4	3-307-477-31

TAPE PATH ADJUSTMENT

When assembling the erase head and head holder, and when replacing the tape guide (L), be sure to perform the following adjustments.

1. Using a mirror tape cassette, adjust each of the adjustment screws until there is no tape curling.
2. Perform adjustments by changing the height adjustment shim of the head holder assembly and the height adjustment shim of the record/playback head, so that the core of the record/playback head is positioned correctly for both FWD and REV.

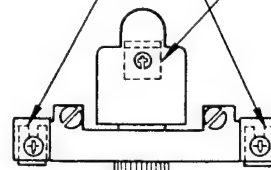


Erase head tape pass adjustment screw

Tape guide tape pass adjustment screw.

Head holder height adjustment shim

Height adjustment shim of REC/PB head.



Enlarged view of head holder assembly

3. After the adjustment, lock the screws with locking compound.

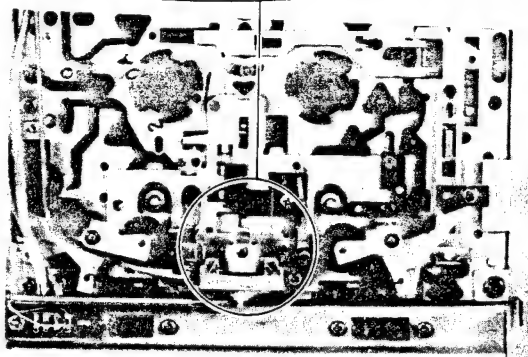
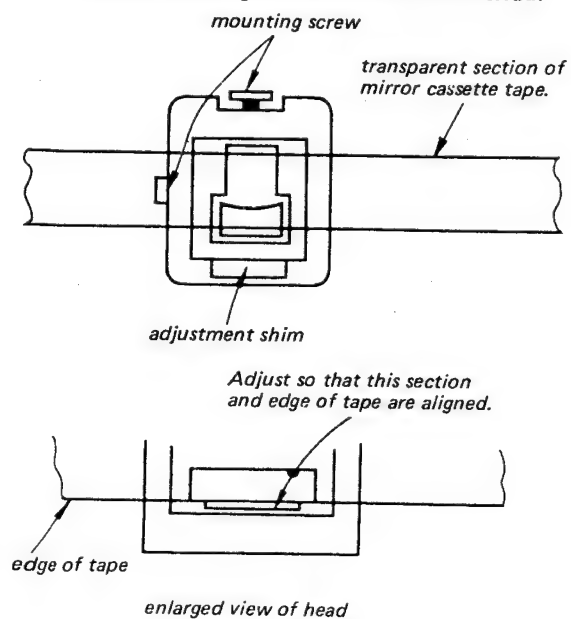
The height adjustment shim of the REC/PB head.

Thick (mm)	Parts No.
0.05	3-307-480-02
0.1	3-307-479-01
0.2	3-307-479-11
0.3	3-307-479-21
0.4	3-307-479-31

RECORD/PLAYBACK HEAD HEIGHT ADJUSTMENT

The following adjustments should be made when the record/playback head is replaced.

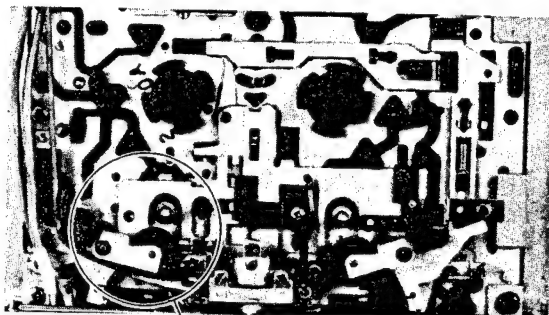
1. The head should be made after removing the head pad of the mirror tape cassette.
2. Using the leader section of the mirror cassette tape, adjustments are made by changing the adjusting shim so that the core and the edge of the tape become as shown in the illustration below when the tape is moved across the head.



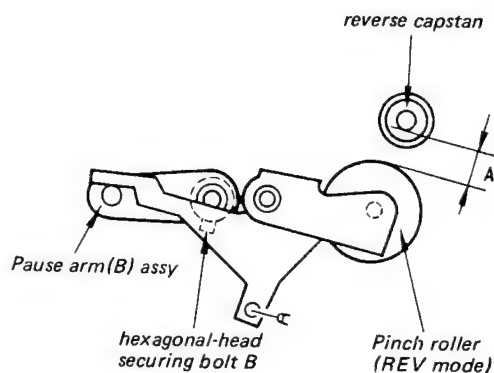
The height adjustment shim of the REC/PB head

Thick (mm)	Parts No.
0.05	3-307-480-02
0.1	3-307-479-01
0.2	3-307-479-11
0.3	3-307-479-21
0.4	3-307-479-31

PAUSE ARM POSITION ADJUSTMENT



Loosen the hexagonal-head securing bolt B and adjust the position of the pause arm B so that the distance of A becomes 0.5 mm ~ 1.0 mm.



4-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

- Set the TAPE switches according to the tape as follows.

Tape	TAPE switch
CS-10	TYPE I
CS-20	TYPE II
CS-30	TYPE III
CS-40	TYPE IV

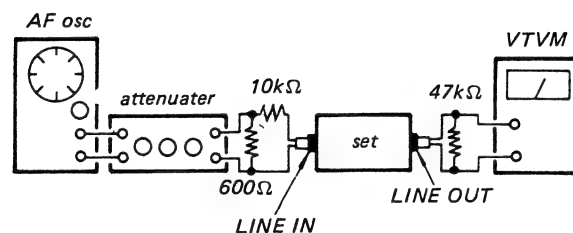
- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch:	OFF
TAPE switch:	TYPE I
TIMER switch:	OFF

- Standard Record :

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

—Record Mode—



Standard Input Level

	LINE IN
source impedance	10 kΩ
input level	0.25 V (-10 dB)

Standard Output Level

	LINE OUT
load impedance	47 kΩ
output level	0.44 V (-5 dB)

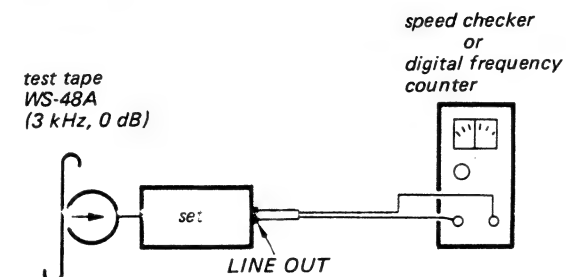
Tape Speed Adjustment

Setting:

Tape Selector Switch AUTO
Dorby NR switch OFF

Procedure:

Mode: PLAYBACK



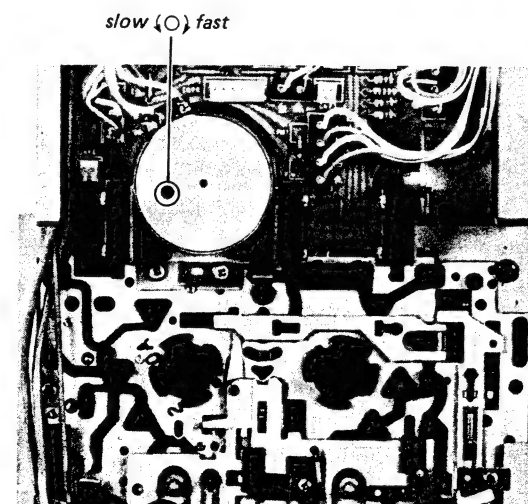
Using test tape WS-48A adjust the variable resistor that built in motor so that the specification is met. Adjust for both forward (▶) direction and reverse (◀) direction.

Specification:

Speed checker	Digital frequency counter
±1%	2,970—3,030 Hz

Frequency difference between the beginning and the end of the tape should be within 1% (30 Hz).

Adjustment Location:

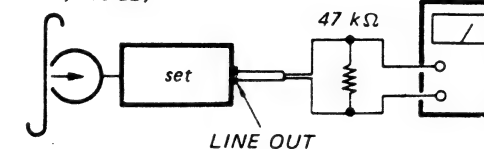


Record/playback Head Azimuth Adjustment

Procedure:

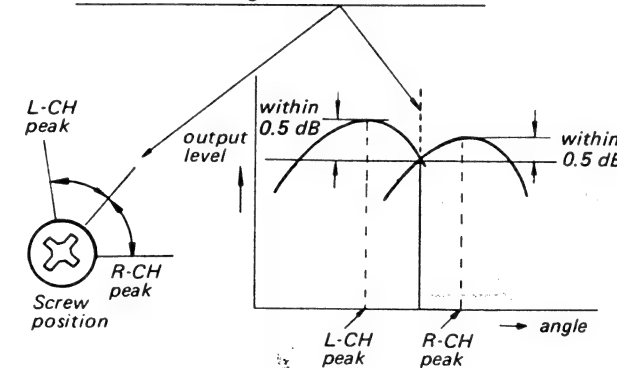
- Mode: playback (FOW/REV)

test tape
P-4-A81
(6.3 kHz, -10 dB)



Adjust for forward (▶) direction and reverse (◀) direction.

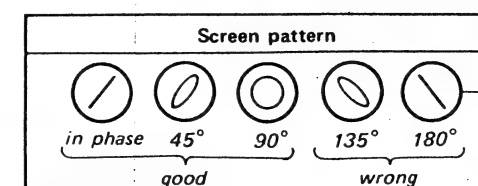
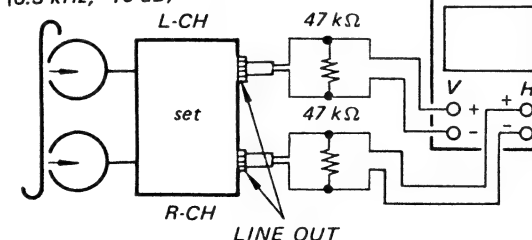
- Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw where both of output levels match together within 0.5 dB.



- Phase Check

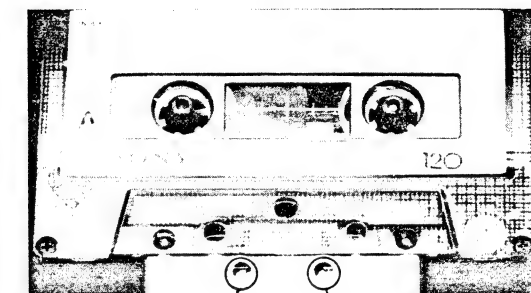
Confirm that phase difference between L-channel and R-channel is within 90°.

test tape
P-4-A81
(6.3 kHz, -10 dB)



- After the adjustment, lock the screws with locking compound.

Adjustment Location:



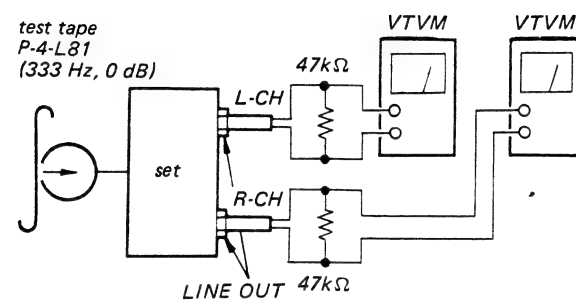
Adjustment screw
REVERSE direction
(◀)

Adjustment screws
FORWARD direction
(▶)

Playback Level Adjustment

Procedure:

Mode: playback



Adjust the RV101 (L-CH) and RV201 (R-CH) so that the specification is met.

Specification:

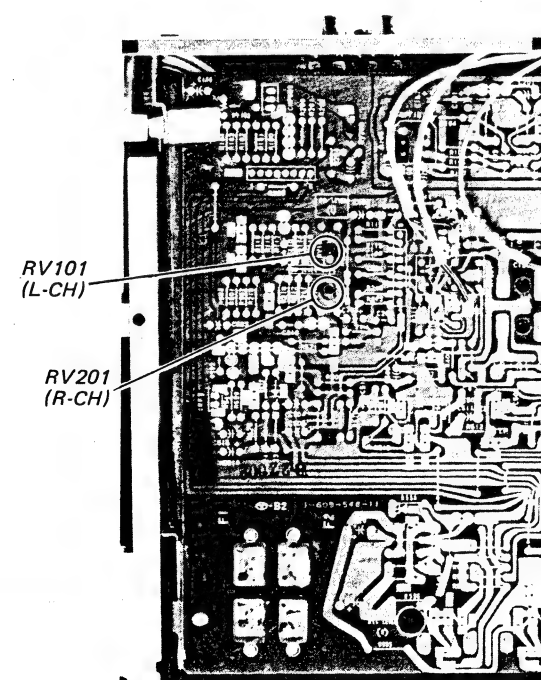
LINE OUT level: 0.52 ~ 0.59 V
(-3.5 ~ -2.5 dB)

Level difference between channels:
less than 0.5 dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location:

—PLAYBACK BOARD—



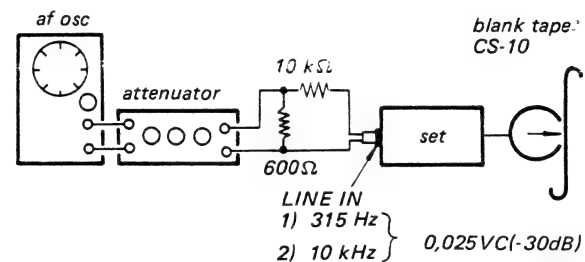
Record Bias Adjustment

Setting:

TAPE SELECTOR : AUTO
DOLBY NR : OFF
TEST TAPE : CS-10 (Blank tape)
REC LEVEL : STANDARD RECORD
(See page 19)

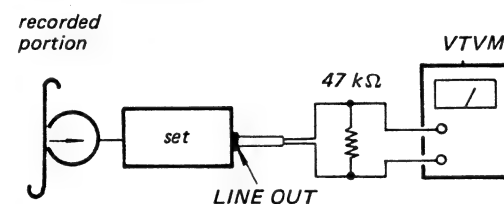
Procedure:

1. Mode: record



Record 315 Hz and 10 kHz Signals.

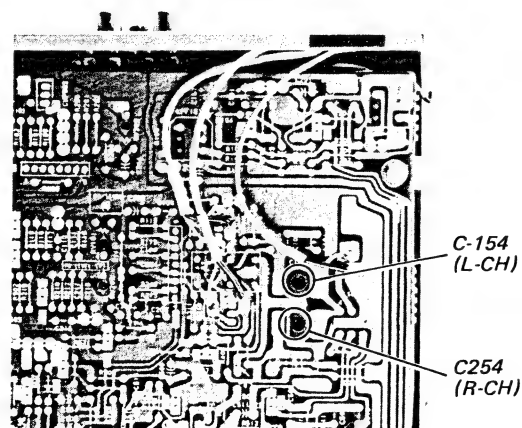
2. Mode: playback



Playback the two signals recorded in Step 1.
Adjust C154 (L-CH) and C254 (R-CH) so that playback output of 10kHz signal is 0dB relative to that of 315 Hz.

Adjustment location:

—PLAYBACK BOARD—



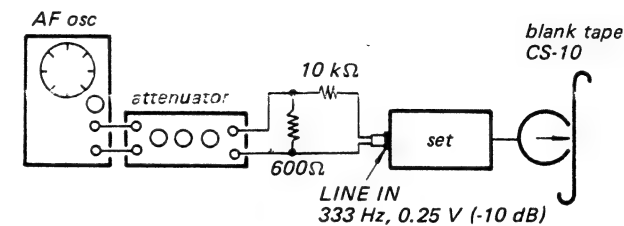
Record Level Adjustment

Setting:

TAPE SELECTOR : AUTO
DOLBY NR : OFF
TEST TAPE : CS-10 (Blank tape)
REC LEVEL : STANDARD RECORD
(See page 19)

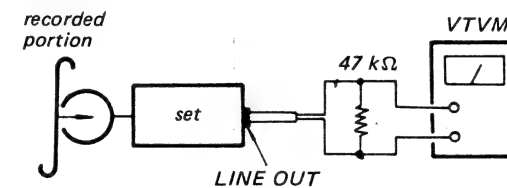
Procedure:

1. Mode: record



Record a 333 Hz signal of 0.25 V (-10 dB).

2. Mode: playback



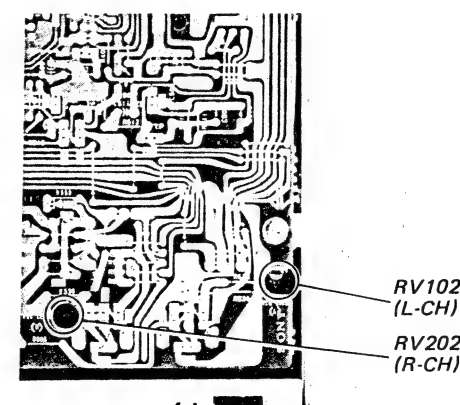
Playback the signal recorded in Step 1.
Adjust RV102 (L-CH) and RV202 (R-CH) for the specification below.

Specification:

LINE OUT level: 0.41 to 0.46 V
(-5.5 to -4.5 dB)

Adjustment Location:

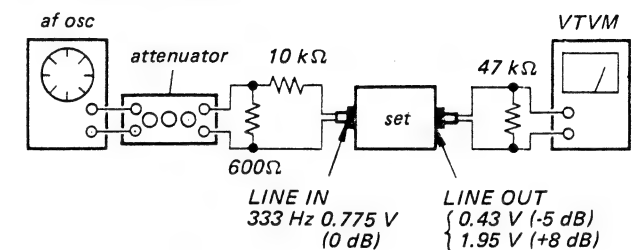
—RECORD BOARD—



Level Meter Calibration

Procedure:

1. Mode: record



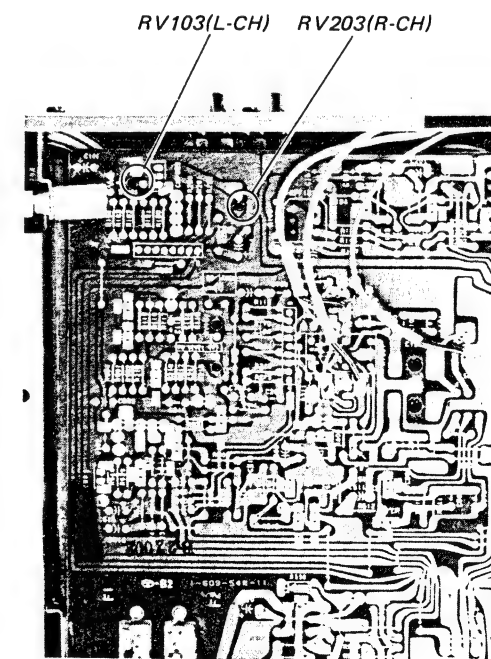
2. Set the REC LEVEL control so that the LINE OUT level is 0.43 V (-5 dB) when a 333 Hz signal of 0.775 V (0 dB) is applied to LINE IN.

3. Adjust RV103 (L-CH), RV203 (R-CH) so that the -5 dB indicating LED in the LED meter goes on.

4. Set the REC LEVEL control so that the LINE OUT level is 1.9 V (+8 dB). Make sure that the +8 dB indicating LED in the level meter goes on.

Adjustment Location:

—PLAYBACK BOARD—



5-1. MOUNTING DIAGRAM
— Audio Section —

A B C D E F G H I J K L M

1

2

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5

6

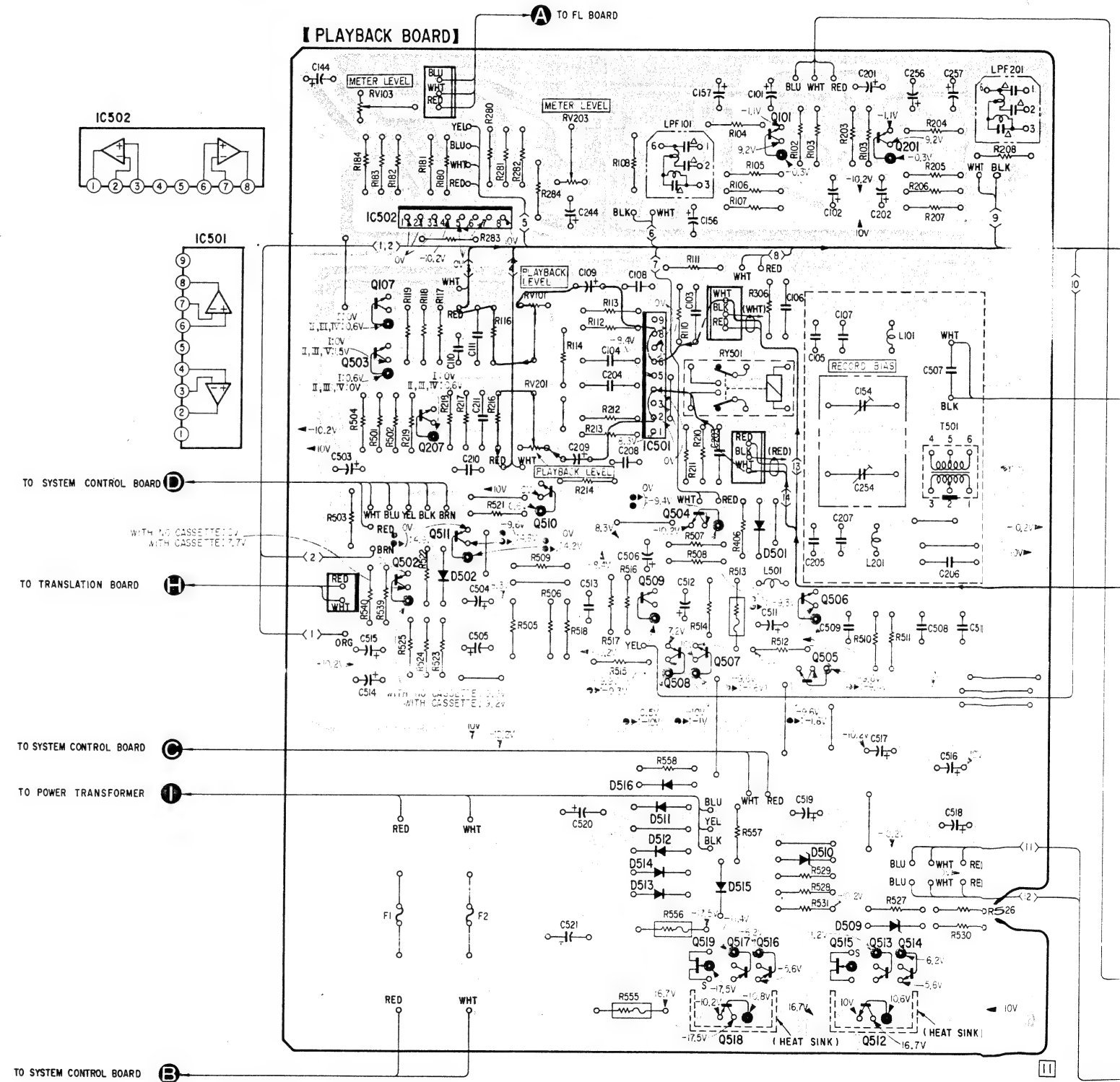
7

8

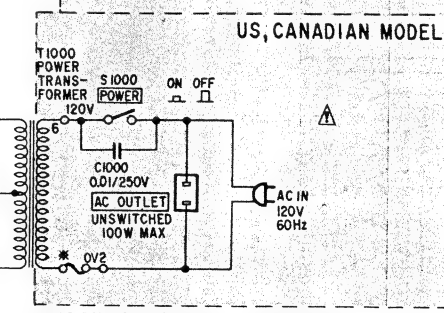
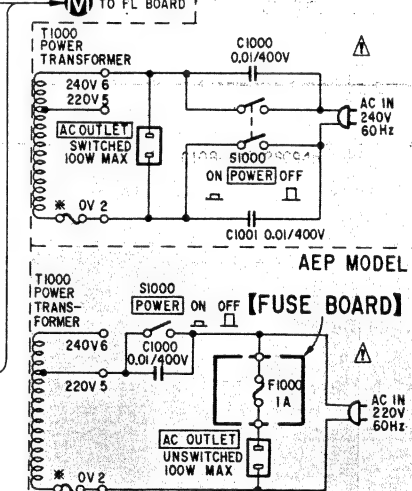
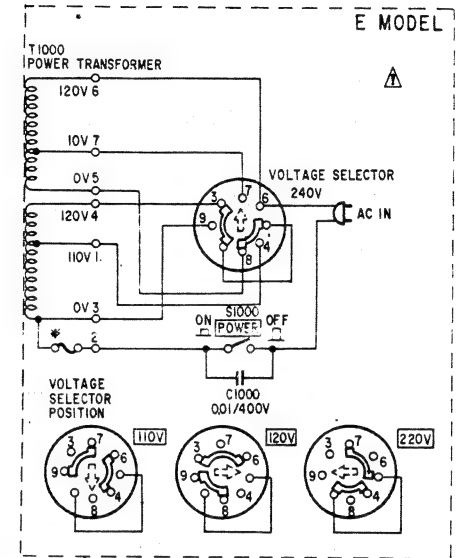
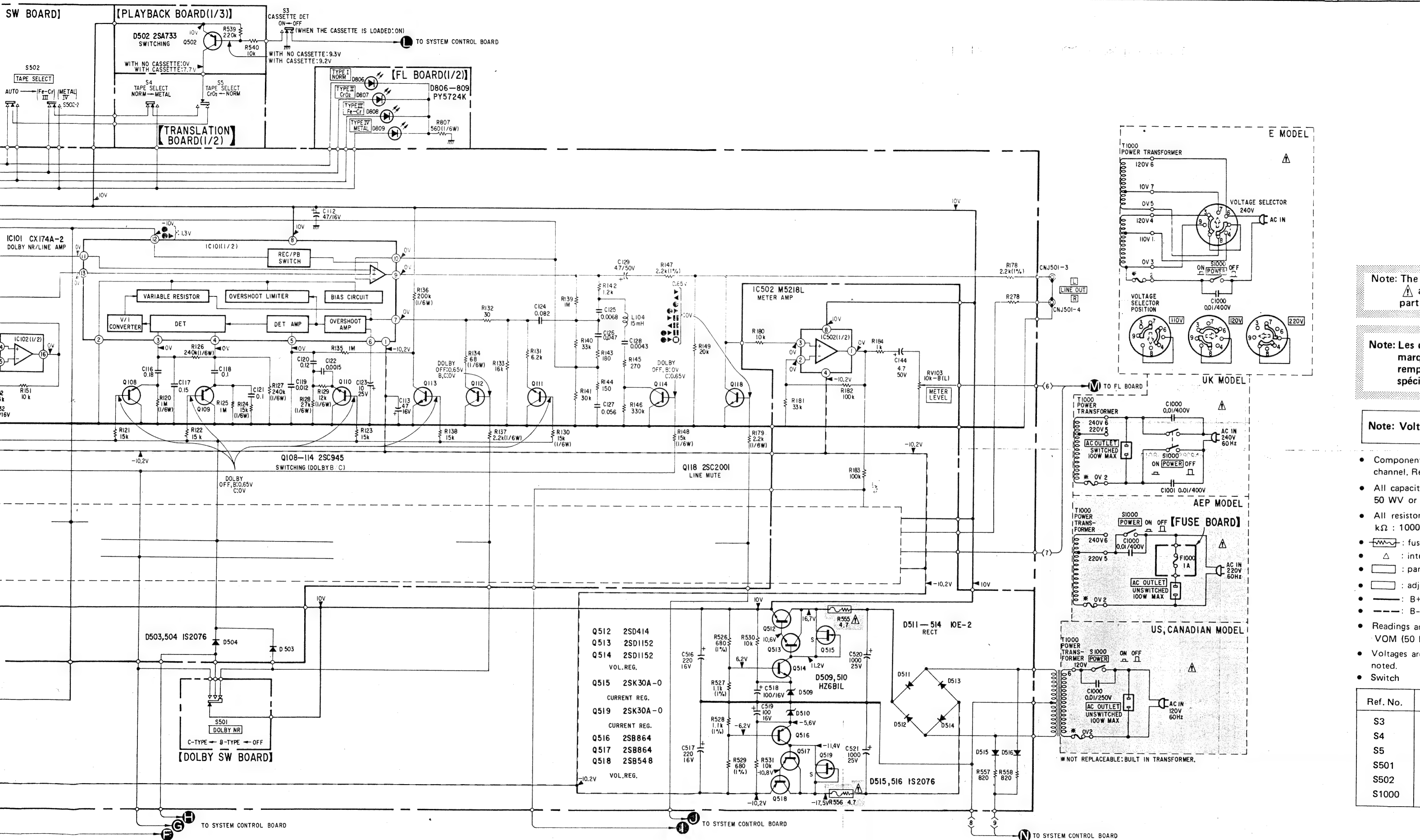
9

10

Q	107	IC502	IC501	504	101	506	201
IC	503	511	510	509	508	507	505
	502			519	517	516	515
				518			514
							512
D	502	516	501	510	509		
		511					
		512					
		514					
		513					



2



Note: The c
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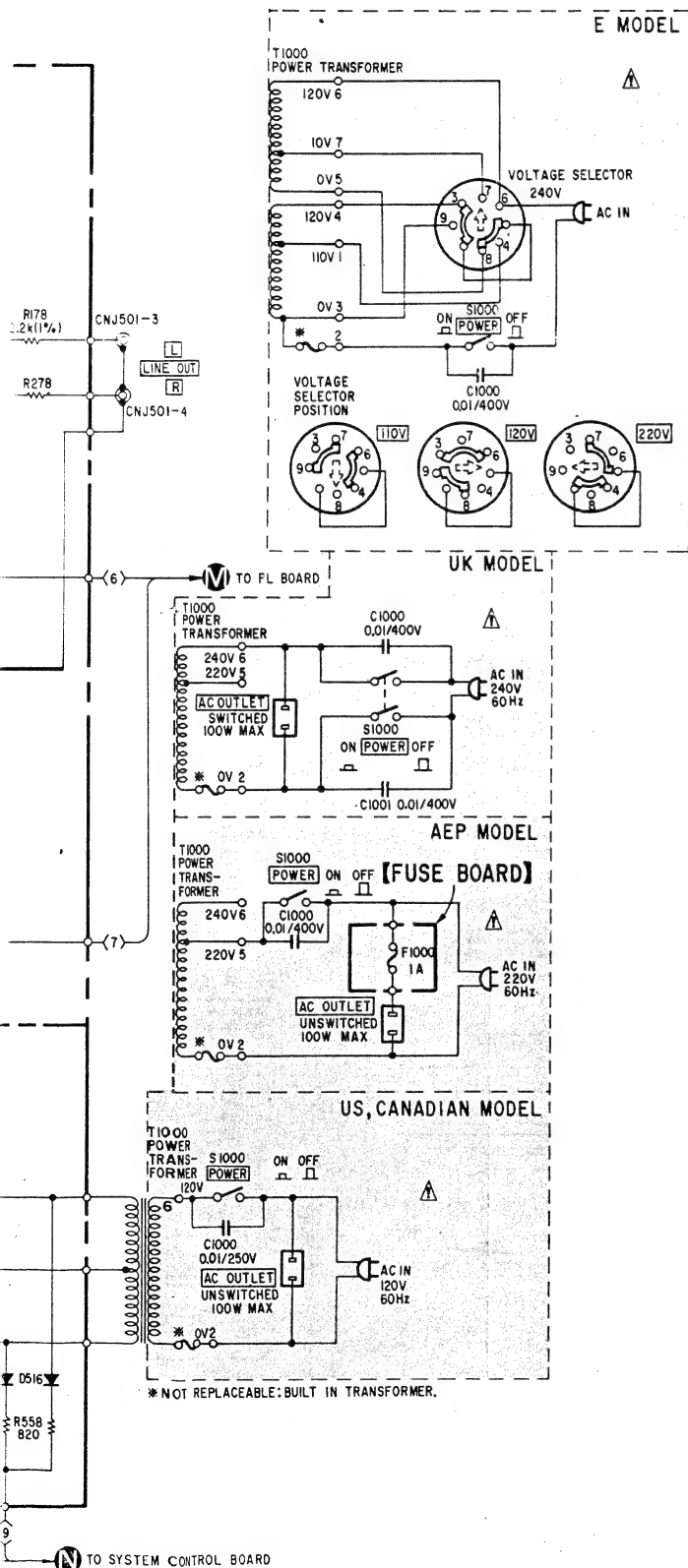
Note: Les c
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spécif

Note: Volta

- Components
- channel. Ref
- All capacito
- 50 WV or l
- All resistors
- kΩ : 1000
- : fusio
- : inter
- : pane
- : adj
- : B+
- : B-
- Readings are
- VOM (50 k
- Voltages are
- noted.
- Switch

Ref. No.	
S3	
S4	
S5	
S501	
S502	
S1000	

A1 B1 C1 D1 E1 F1 G1 H1



Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: Voltages are measured with a VOM (50k Ω /V).

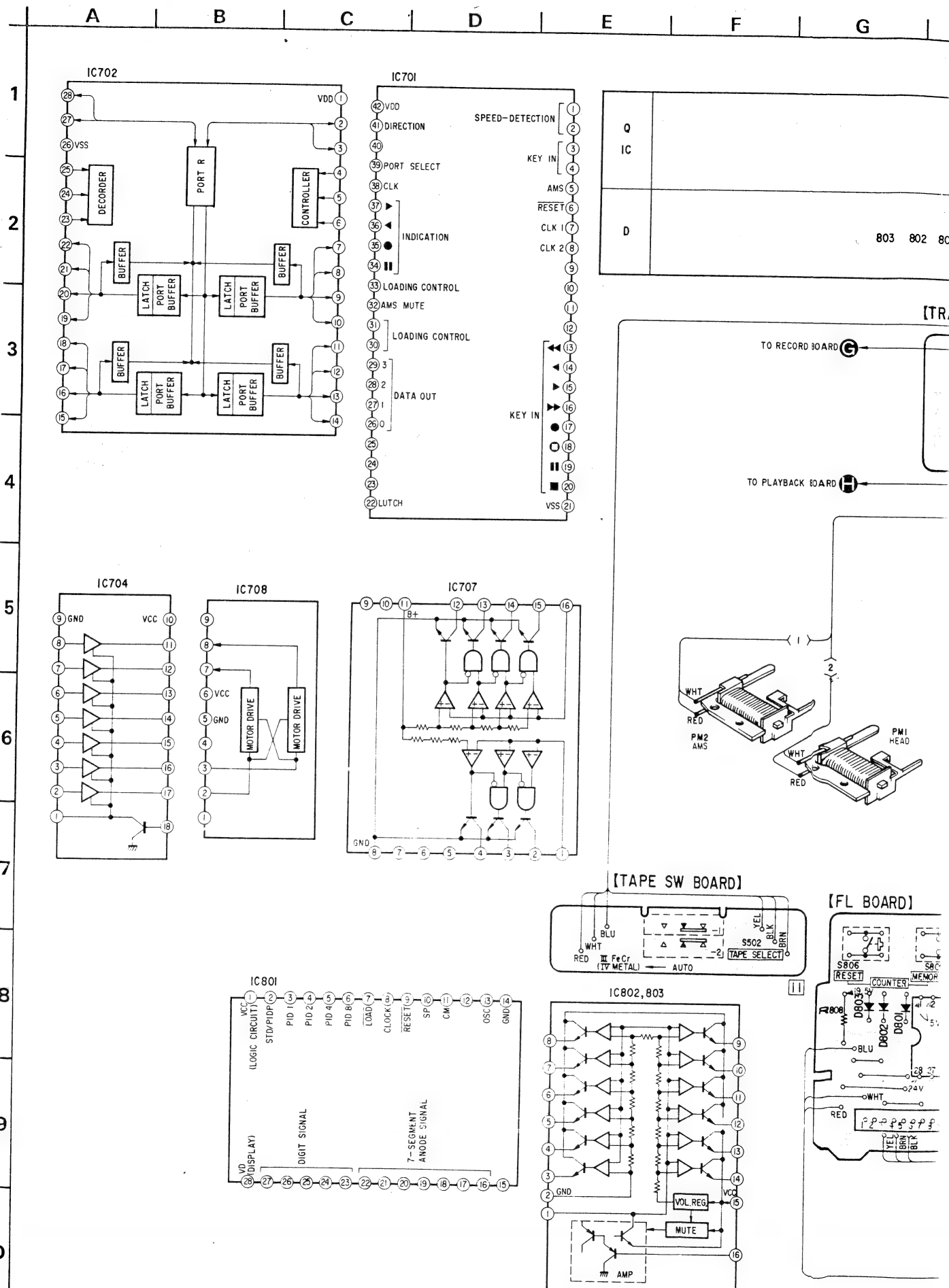
- Components for right channel have same values as for left channel. Reference numbers are coded from
- All capacitors are in μ F unless otherwise noted. pF; μ F 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000 k Ω
- : fusible resistor.
- : internal component.
- : panel designation.
- : adjustment for repair.
- : B+ bus.
- : B- bus.
- Readings are taken under no-signal conditions with a VOM (50 k Ω /V).
- Voltages are dc with respect to ground unless otherwise noted.
- Switch

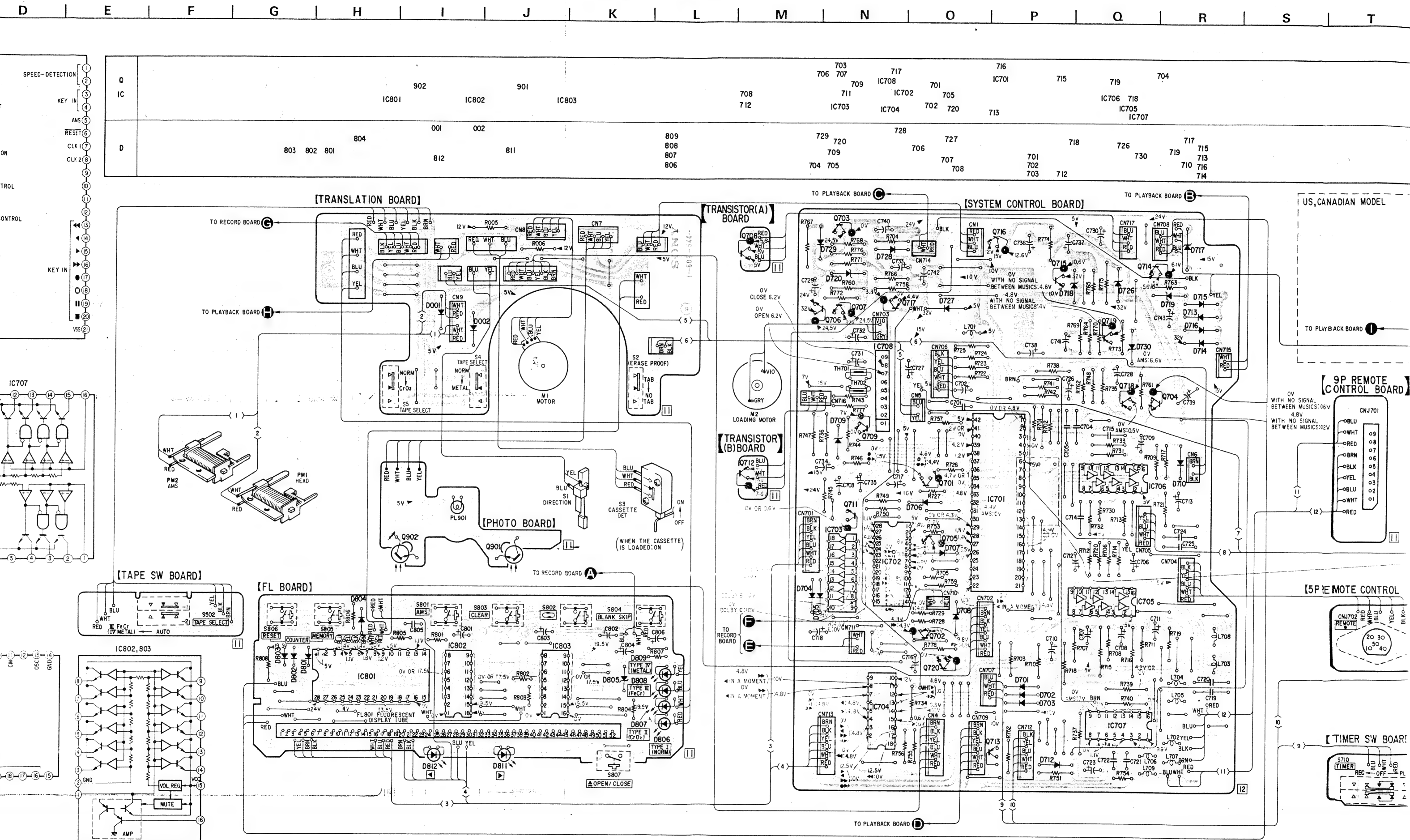
Ref. No.	Switch	Position
S3	CASSETTE DET	OFF
S4	TAPE SELECT	NORM
S5	TAPE SELECT	NORM
S501	DOLBY NR	OFF
S502	TAPE SELECT	AUTO
S1000	POWER	OFF

: Signal path

5-3. MOUNTING DIAGRAM

— System Control Section —





723

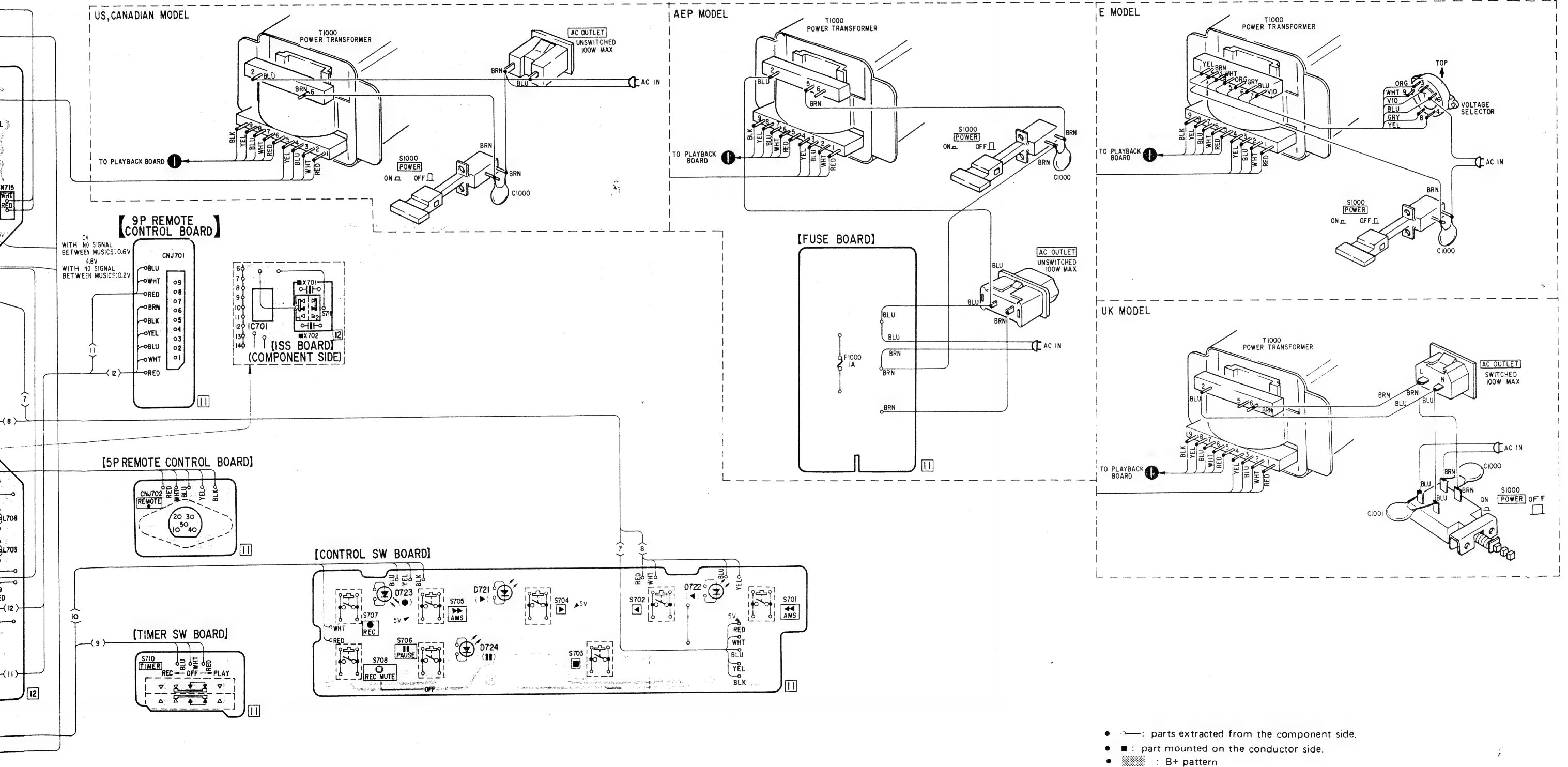
724

721

722

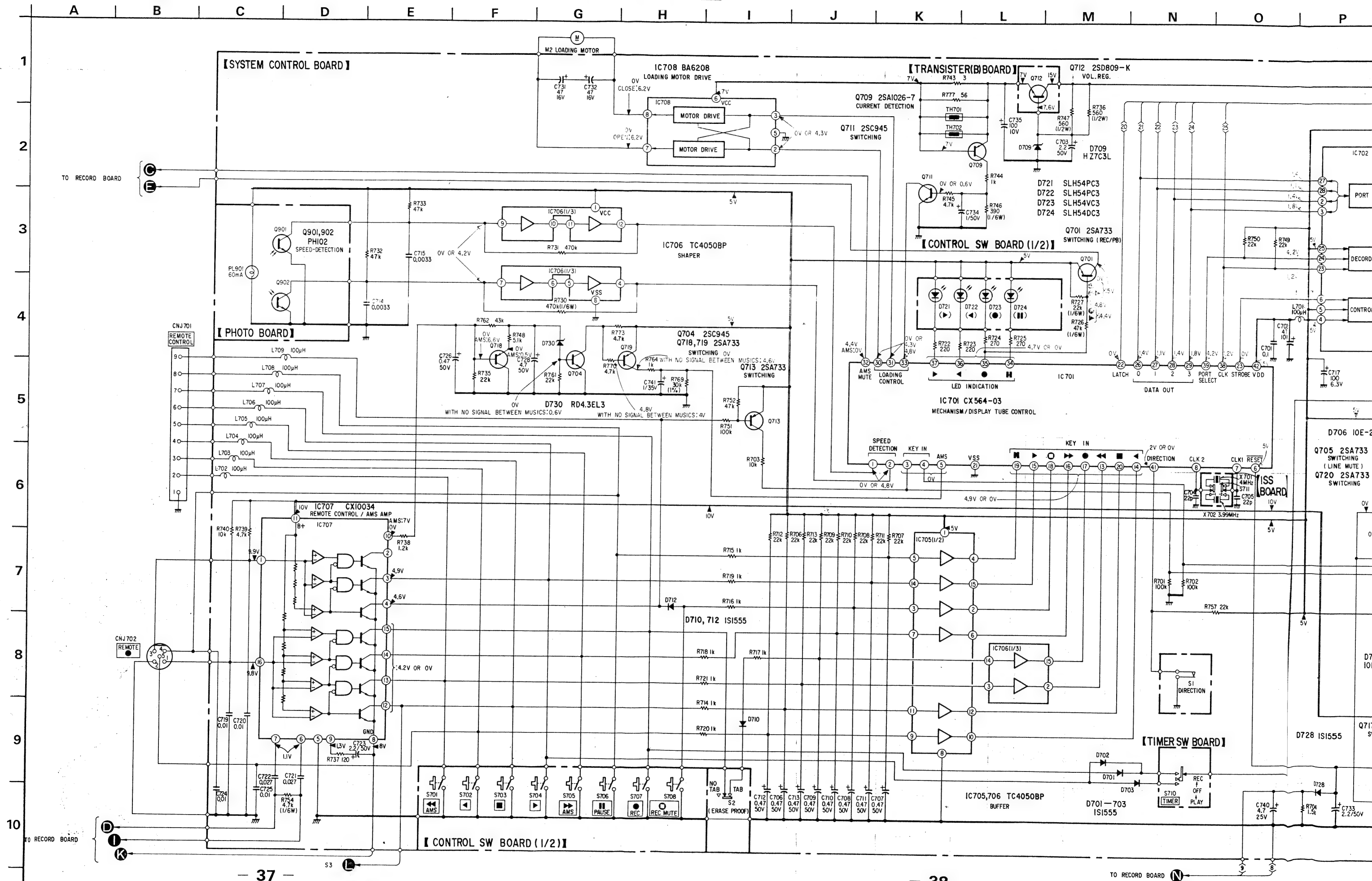
Q
IC

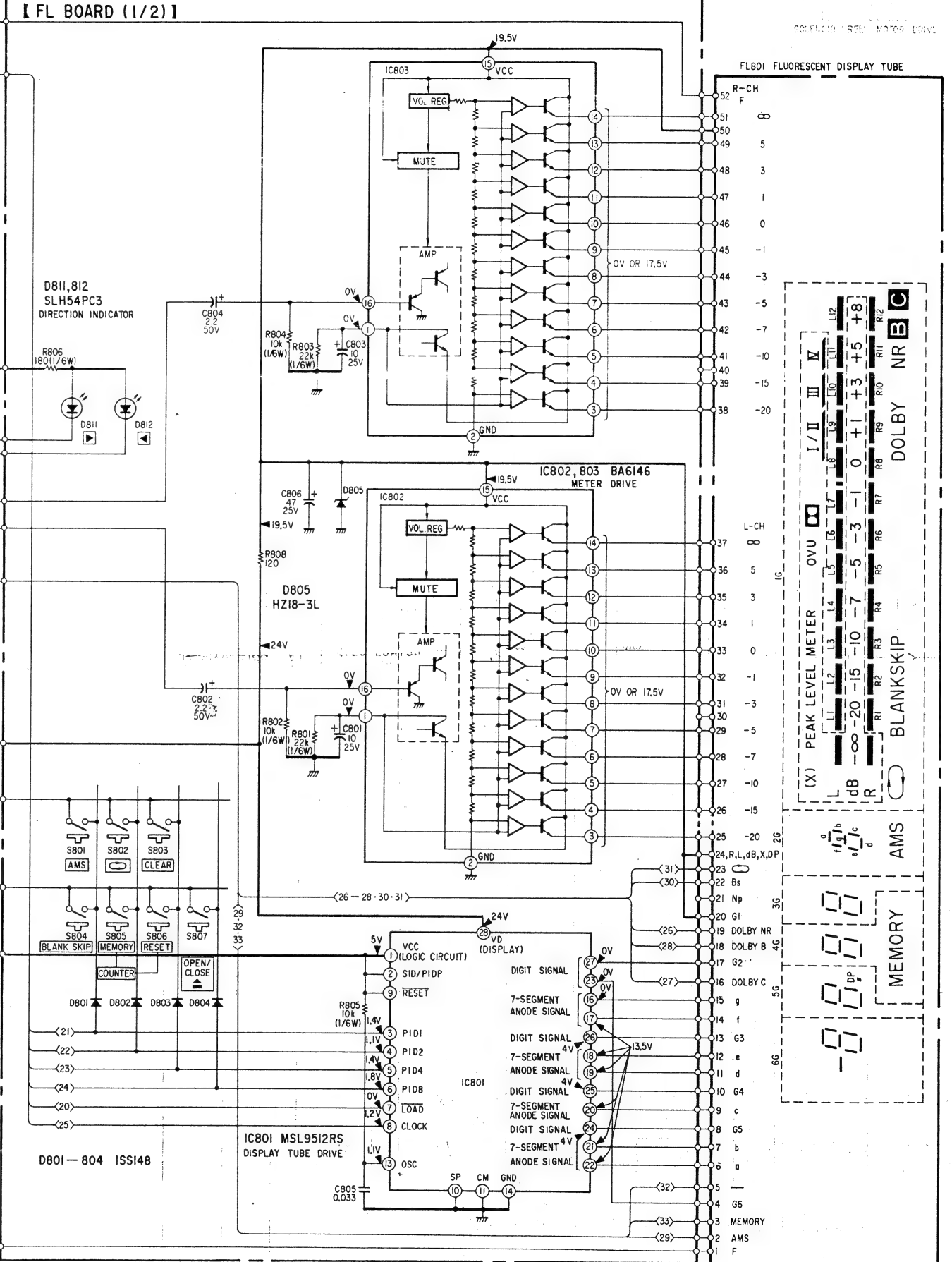
D



54. SCHEMATIC DIAGRAM
— System Control Section —

TC-V7 TC-V7





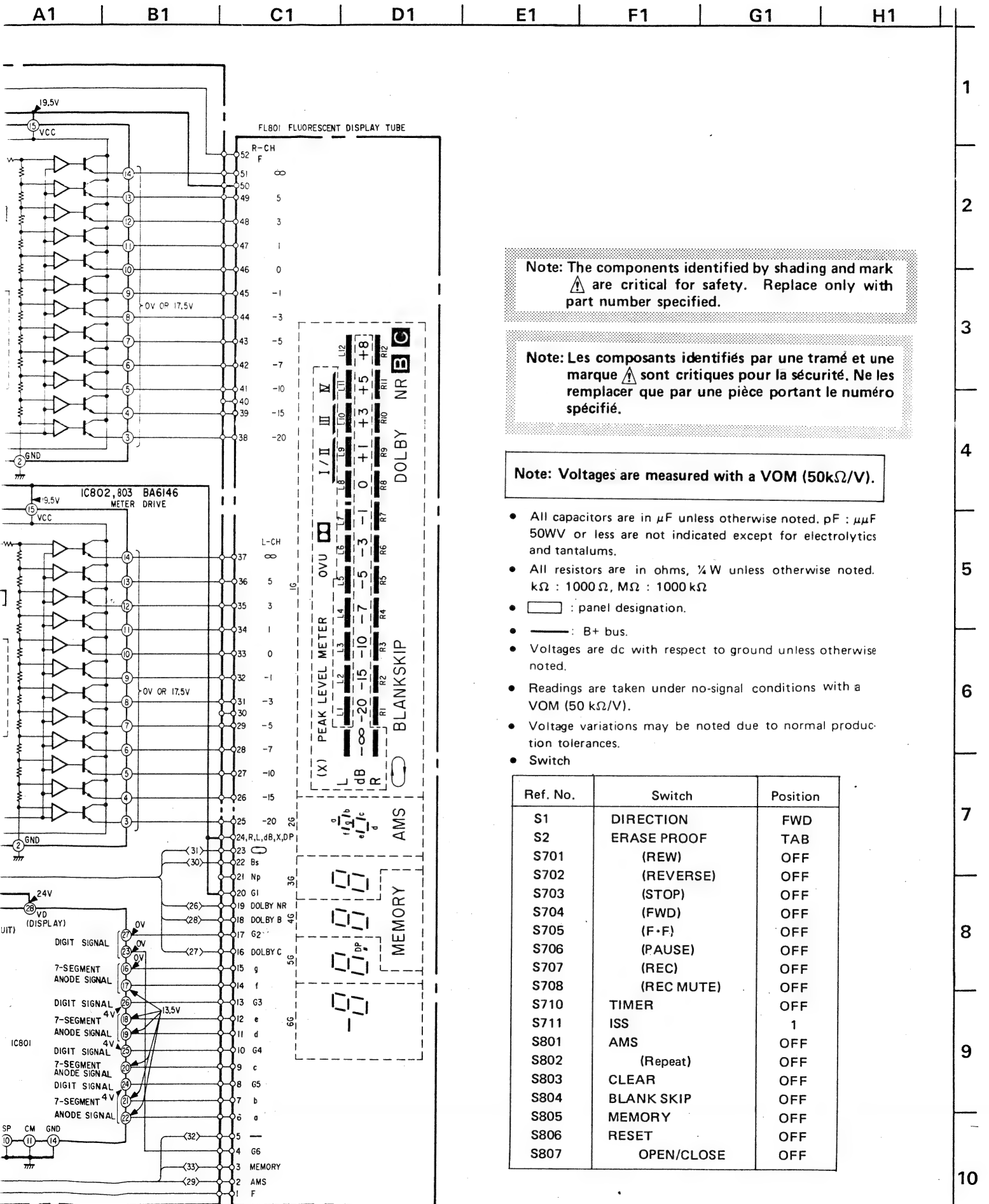
Note:

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 k Ω :

 Volta
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 Read
 VOM
 Volta
 tion
 Swit

Ref. M

S1
S2
S70
S70
S70
S70
S70
S70
S70
S70
S710
S71
S80
S802
S803
S804
S805
S806
S807



Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

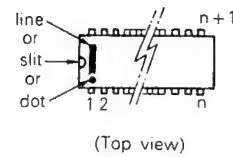
Note: Voltages are measured with a VOM (50k Ω /V).

- All capacitors are in μ F unless otherwise noted. pF : μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000 k Ω
- : panel designation.
- — : B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 k Ω /V).
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S1	DIRECTION	FWD
S2	ERASE PROOF	TAB
S701	(REW)	OFF
S702	(REVERSE)	OFF
S703	(STOP)	OFF
S704	(FWD)	OFF
S705	(F·F)	OFF
S706	(PAUSE)	OFF
S707	(REC)	OFF
S708	(REC MUTE)	OFF
S710	TIMER	OFF
S711	ISS	1
S801	AMS	OFF
S802	(Repeat)	OFF
S803	CLEAR	OFF
S804	BLANK SKIP	OFF
S805	MEMORY	OFF
S806	RESET	OFF
S807	OPEN/CLOSE	OFF

Semiconductor Lead Layouts

BA6146
CX564-03
CX174A-2
CX10034
LB1262
LB1290
M507835SP
MSL9512RS
TC4050BP

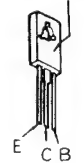


2SA1026-7

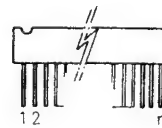


**2SB548
2SD414
2SD809K**

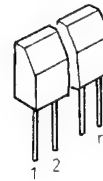
letter side



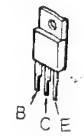
BA6208



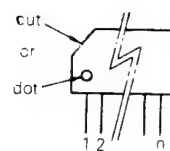
M5218L



2SD1406



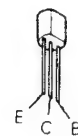
NJM4562S-D



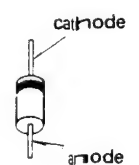
2SK30A-0



2SA844
2SB864
2SC945
2SC2001-K2
2SC1345
2SC1364
2SC1364-8
2SD1152

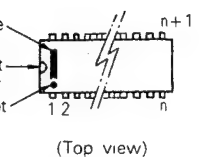
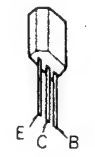
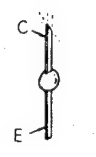
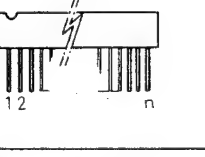
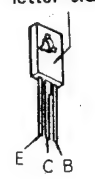
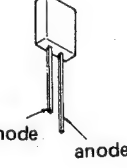
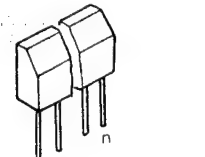
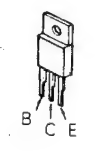
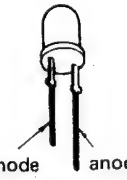
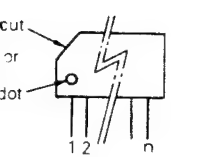
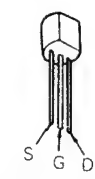
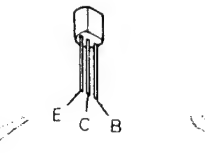
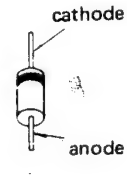


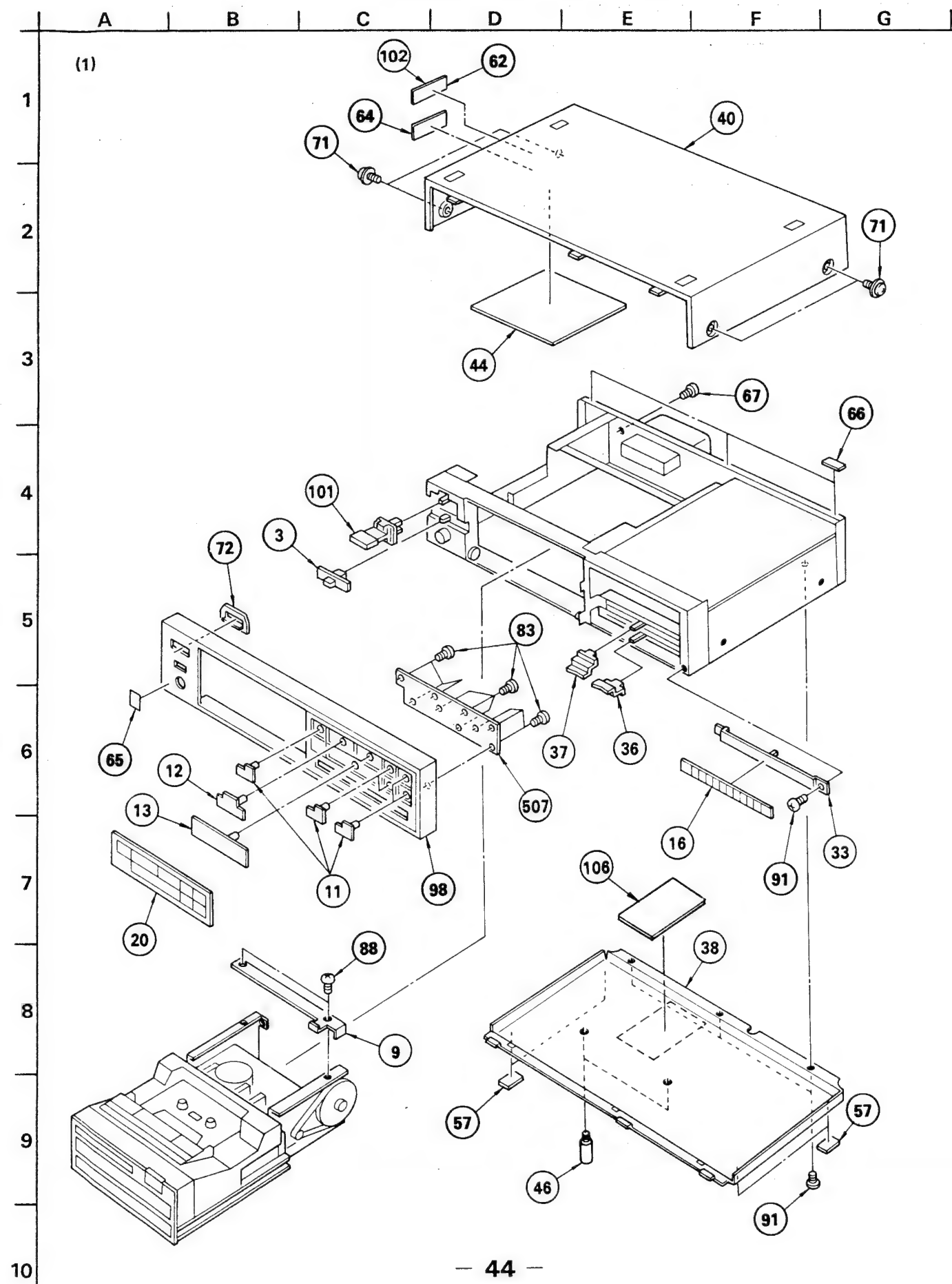
10E2
1S1555
1SS119
1SS148
EQB01-07
HZ11B2L
HZ12C3L
HZ18-3L
HZ24-3L
HZ6B1L
HZ6C2L
HZ9A2L
RD4.3E-L3



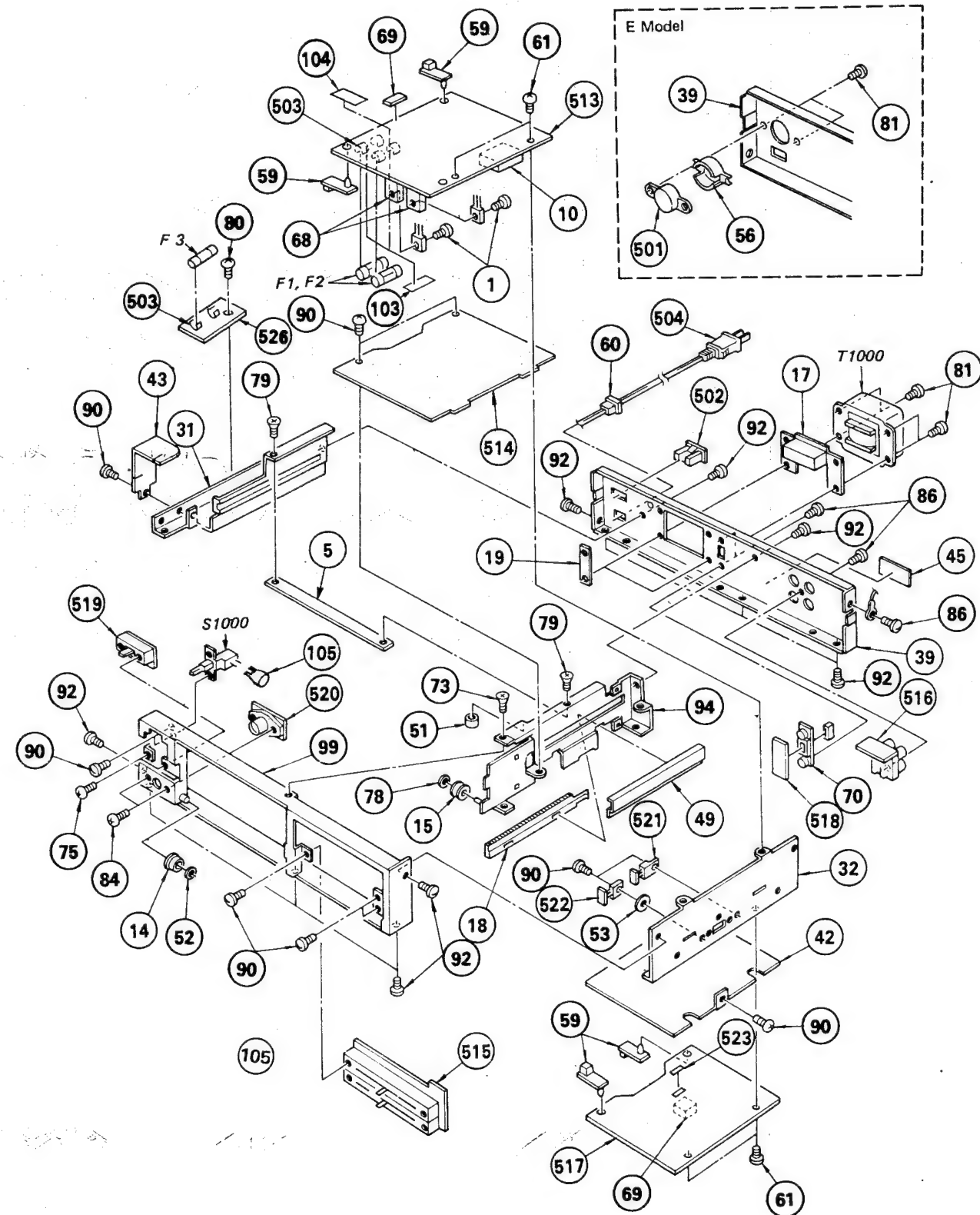
SECTION 6
EXPLODED VIEWS AND PARTS LIST

Microconductor Lead Layouts

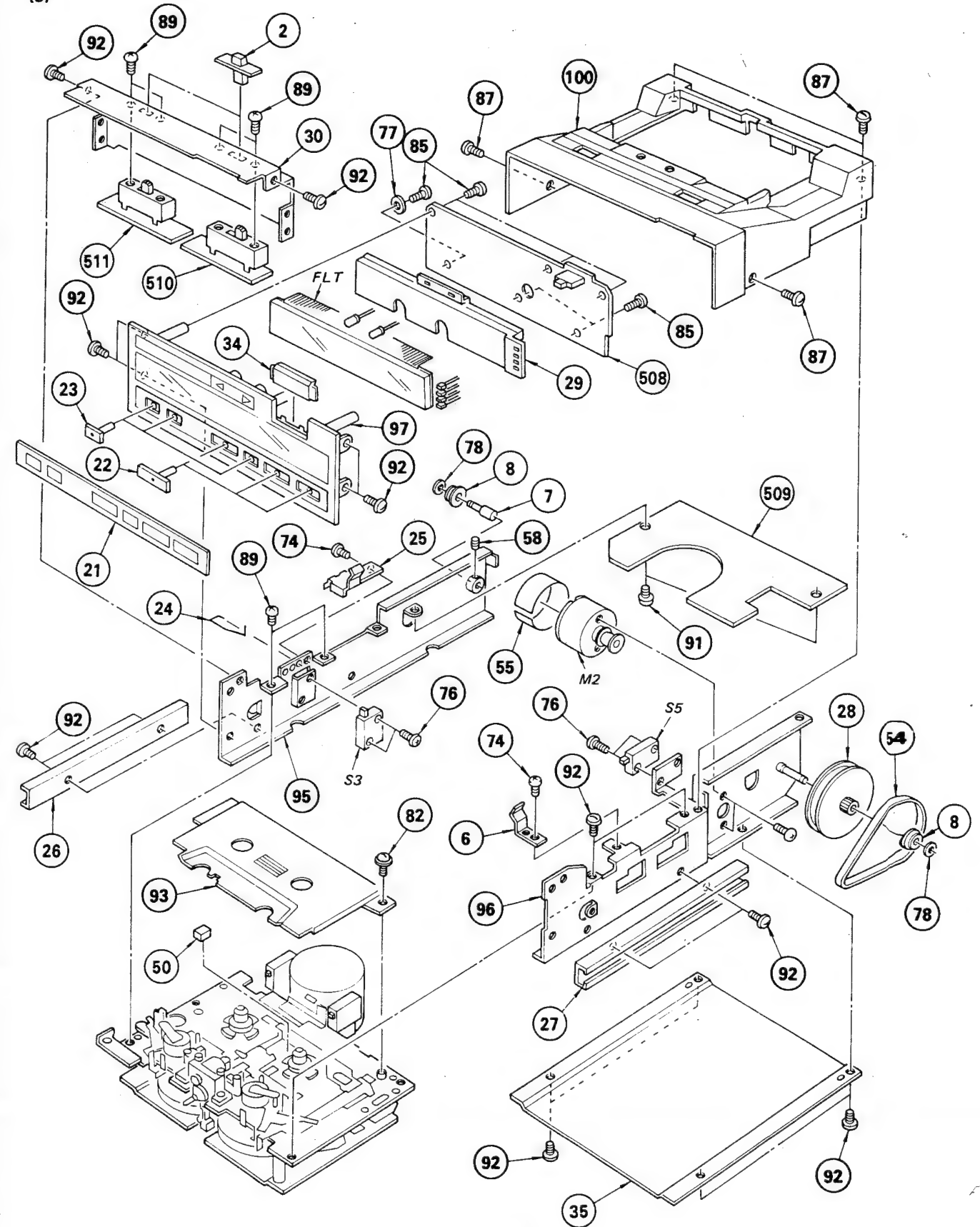
<p>BA6146 CX564-03 CX174A-2 CX10034 LB1262 LB1290 M507835SP MSL9512RS TC4050BP</p>  <p>(Top view)</p>	<p>2SA1026-7</p> 	<p>PH102</p> 
<p>BA6208</p> 	<p>2SB548 2SD414 2SD809K</p> <p>letter side</p> 	<p>PY5724K</p>  <p>cathode anode</p>
<p>M5218L</p> 	<p>2SD1406</p> 	<p>SLH54DC3 SLH54PC3 SLH54VC3</p>  <p>cathode anode</p>
<p>NJM4562S-D</p> 	<p>2SK30A-0</p> 	
<p>2SA844 2SB864 2SC945 2SC2001-K2 2SC1345 2SC1364 2SC1364-8 2SD1152</p> 	<p>10E2 1S1555 1SS119 1SS148 EQB01-07 HZ11B2L HZ12C3L HZ18-3L HZ24-3L HZ6B1L HZ6C2L HZ9A2L RD4.3E-L3</p>  <p>cathode anode</p>	

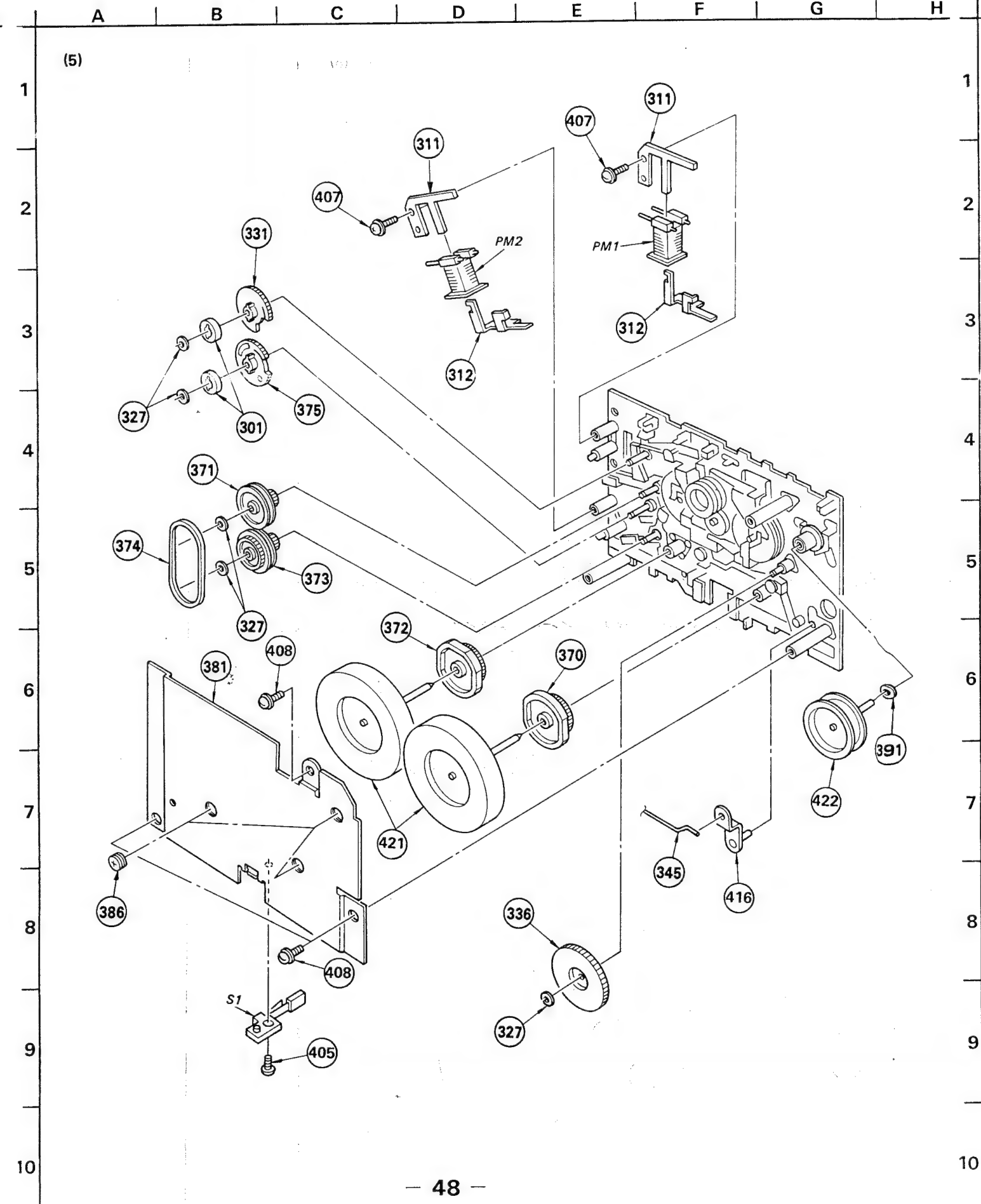
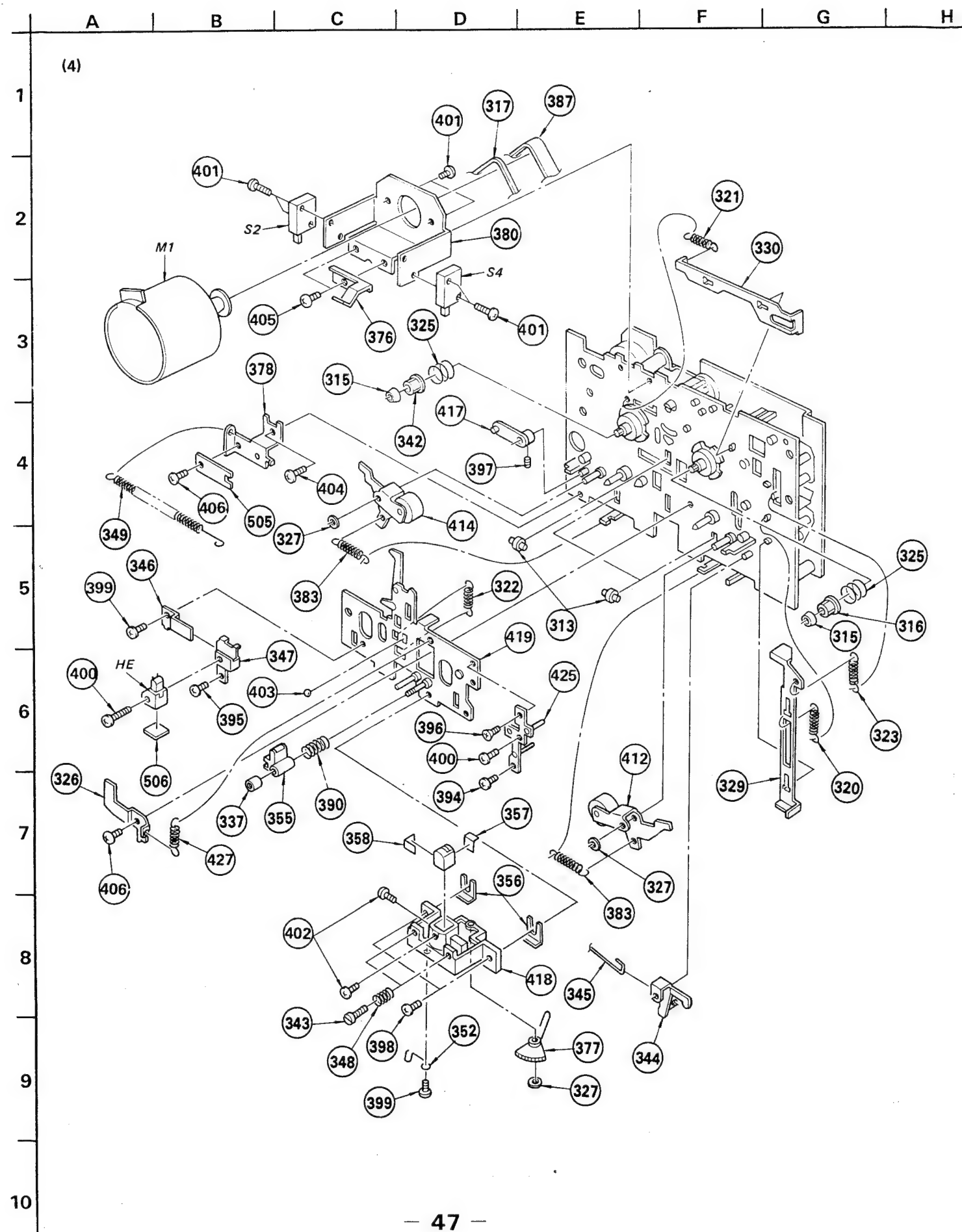


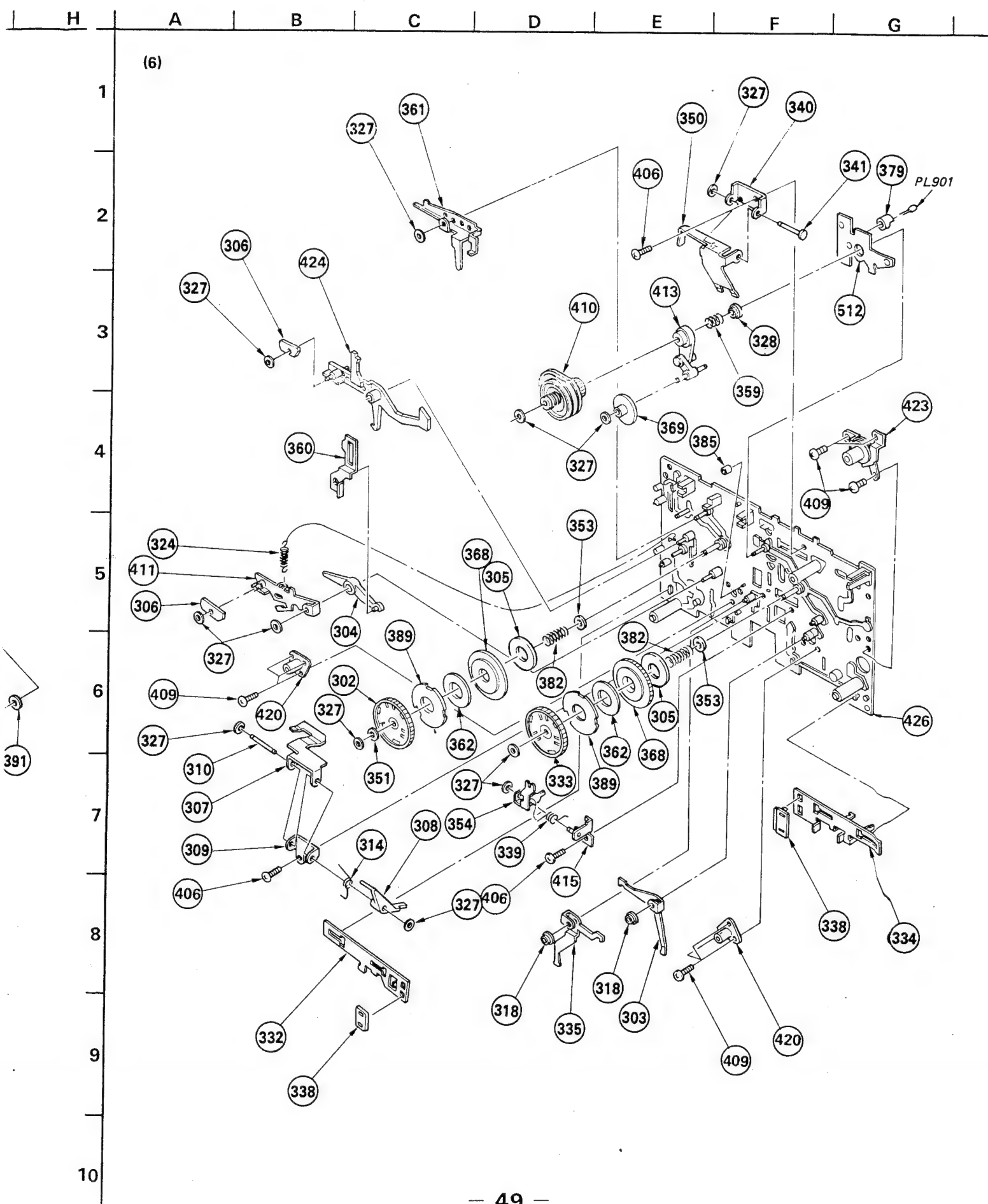
(2)



(3)







GENERAL SECTION

No.	Part No.	Description
1	2-259-121-00	SCREW, TR
2	3-307-538-31	KNOB, SWITCH, TIMER
3	3-307-538-41	KNOB, SWITCH, TIMER
4	.....
5	3-312-905-00	JOINT (A)
6	3-312-908-00	RETAINER (RIGHT), HALF
7	3-312-909-00	SHAFT, ROLLER
8	3-312-910-00	ROLLER (B)
9	3-312-911-00	JOINT (B)
10	3-312-913-00	PLATE, SHIELD
11	3-312-917-00	BUTTON, PAUSE
12	3-312-918-00	BUTTON, FWD
13	3-312-920-00	BUTTON, STOP
14	3-312-921-00	ROLLER (F.L)
15	3-312-923-00	ROLLER (F.R)
16	3-312-924-00	PLATE, ORNAMENTAL, CONTROL
17	3-312-925-00	SHEET, INSULATING
18	3-312-926-00	RACK
19	3-312-927-00	NUT, PLATE
20	3-312-928-00	SHEET, FUNCTION
21	3-312-929-00	SHEET, DRAWER
22	3-312-930-00	BUTTON, AMS
23	3-312-931-00	BUTTON, MEMORY
24	3-312-932-00	ARM, DETECTION, HALF
25	3-312-933-00	RETAINER (L), HALF
26	3-312-934-00	RAIL (LEFT)
27	3-312-935-00	RAIL (RIGHT)
28	3-312-936-00	GEAR, LOADING
29	3-312-937-00	HOLDER, FL TUBE
30	3-312-941-00	FRAME, DRAWER
31	3-312-942-00	FRAME (A)
32	3-312-943-00	FRAME (C)
33	3-312-945-00	COVER, CONTROL
34	3-312-946-00	BUTTON, DRAWER
35	3-312-947-02	PLATE, BOTTOM, DRAWER
36	3-312-948-00	KNOB (RIGHT), CONTROL
37	3-312-949-00	KNOB (LEFT), CONTROL
38	3-312-950-03	PLATE, BOTTOM
39	3-312-952-12	(US,Canadian)...PLATE, JACK
39	3-312-952-22	(E).....PLATE, JACK
39	3-312-952-32	(AEP).....PLATE, JACK
39	3-312-952-42	(UK).....PLATE, JACK
40	3-312-953-00	CASE
41	.....
42	3-312-963-00	INSULATOR

GENERAL SECTION

No.	Part No.	Description
43	3-312-964-00	INSULATOR, SWITCH
44	3-312-965-00	PLATE, SHIELD, HEAD
45	3-312-966-00	(US,Canadian)...LABEL, MODEL NUMBER
45	3-312-967-00	(E).....LABEL, MODEL NUMBER
45	3-312-969-00	(UK).....LABEL, MODEL NUMBER
45	3-312-971-00	(AEP).....LABEL, MODEL NUMBER
46	3-312-974-00	SCREW, TRANSPORT
47	.....
48	.....
49	3-312-977-00	COVER, ROLLER
50	3-312-978-00	SHEET, RUBBER
51	3-537-790-11	SUPPORT, TENSION ARM
52	3-558-708-21	WASHER, STOPPER
53	3-572-365-01	SHEET (A), INSULATING
54	3-573-911-21	BELT, FLAT
55	3-575-457-00	PLATE (B), SHIELD, MOTOR
56	3-575-567-00	(E).....COVER, SWITCH
57	3-576-332-11	FOOT, F
58	3-701-505-00	SET SCREW, DOUBLE POINT 3X3
59	3-701-832-00	HINGE, CIRCUIT BOARD
60	3-703-244-00	BUSHING, CORD
61	3-703-486-00	+PTTWH 3X5
62	3-703-678-00	(US)..LABEL, CAUTION, NEW UL
64	3-703-680-00	(US)..LABEL, CAUTION, SUB, NEW UL
65	3-703-713-01	STICKER, SONY SYMBOL (10)
66	3-831-441-11	CUSHION, 23X4X0.5
67	4-808-459-81	SCREW (B), MOTOR LOCK
68	4-861-002-11	HEAT SINK
69	4-862-348-00	CUSHION
70	4-864-313-00	WASHER (9P), CONNECTOR
71	4-886-821-11	SCREW, M3 CASE
72	4-886-976-00	ESCUTCHEON, POWER KNOB
73	7-621-559-20	SCREW +K 2.6X4
74	7-621-775-00	SCREW +B 2.6X3
75	7-621-775-20	SCREW +B 2.6X5
76	7-621-775-40	SCREW +B 2.6X8
77	7-623-911-01	WASHER, NYLONE
78	7-624-102-04	STOP RING 1.5, TYPE -E
79	7-627-452-18	SCREW, PRECISION +K 2X3
80	7-682-546-04	SCREW +BVT 3X5 (S)
81	7-682-547-09	SCREW +B 3X6
82	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT
83	7-685-145-11	SCREW +P 3X6 TYPE2 NON-SLIT
84	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S

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- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
- MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F: nonflammable

COILS

- MMH: mH, UH: μH

GENERAL SECTION

No.	Part No.	Description
85	7-685-534-24	SCREW +P 2.6X8 TYPE2 NON-SLIT
86	7-685-545-19	SCREW +BTP 3X6 TYPE2 N-S
87	7-685-751-09	SCREW, TOTSU BTT 3X6
88	7-685-860-04	SCREW +BVTT 2.6X4 (S)
89	7-685-861-01	SCREW +BVTT 2.6X5 (S)
90	7-685-870-01	SCREW +BVTT 3X5 (S)
91	7-685-871-01	SCREW +BVTT 3X6 (S)
92	7-687-711-39	SCREW, TOTSU BTT 3X5
93	X-3312-902-0	PLATE ASSY, ORNAMENTAL, MD
94	•;X-3312-904-0	FRAME (B) ASSY
95	•;X-3312-905-0	PLATE (LEFT) ASSY, SIDE, MD
96	•;X-3312-906-0	PLATE (RIGHT) ASSY, SIDE, MD
97	X-3312-907-0	PANEL ASSY, DRAWER
98	X-3312-908-0	PANEL ASSY, FRONT
99	•;X-3312-909-0	CHASSIS ASSY, AMPLIFIER
100	X-3312-910-0	COVER ASSY, MD
101	X-4886-805-0	KNOB (L) ASSY, POWER
102	3-703-043-31	(Canadian).....LABEL, CAUTION
103	•;3-701-946-30	(US).....LABEL, FUSE
103	•;3-701-948-14	(AEP, UK, E1, E2).....LABEL, CAUTION
104	3-703-044-26	(Canadian).....LABEL, CAUTION
105	4-875-455-21	COVER, CAPACITOR
106	9-911-837-XX	SHEET, VIBRATION PROOF

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
151	1-556-793-31	CORD, CONNECTION
152	3-701-630-00	BAG, POLYETHYLENE
154	3-773-308-11	(AEP,Canadian,UK,E)....MANUAL INSTRUCTION
155	3-773-308-21	(US).....MANUAL INSTRUCTION
156	3-773-308-41	(AEP).....MANUAL INSTRUCTION
157	3-793-828-11	QUESTIONNAIRE
158	X-3307-105-0	ROD ASSY, CLEANING HEAD
159	3-312-976-01	SHEET, PROTECTION, PANEL

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CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

MECHANISM SECTION

No.	Part No.	Description
301	1-452-202-00	MAGNET
302	3-307-305-02	GEAR (T), REEL
303	•;3-307-306-00	LEVER, SELECT, REVERSE
304	3-307-307-00	LEVER, FWD
305	3-307-313-00	PLATE, YOKE
306	3-307-315-00	ARBOR, MOVABLE
307	3-307-319-00	RETAINER, TAKE-UP GEAR
308	3-307-328-00	LEVER, TAKE-UP SELECTION
309	•;3-307-329-00	PLATE, FULCRUM, SELECTION LEVER
310	3-307-330-00	PIN, FULCRUM PLATE
311	3-307-332-00	ARBOR, FIXED
312	3-307-333-00	ARBOR, TRIGGER
313	3-307-348-00	ROLLER
314	3-307-355-00	SPRING
315	3-307-362-00	CAP, REEL
316	3-307-363-00	CLAW (N), REEL
317	3-307-366-00	BELT, FAST FORWARD
318	3-307-367-00	BUSHING, SELECT LEVER
319	.....
320	3-307-373-00	SPRING, TENSION
321	3-307-374-00	SPRING, TENSION
322	3-307-375-00	SPRING, TENSION
323	3-307-377-00	SPRING, TENSION
324	3-307-378-00	SPRING, TENSION
325	3-307-380-00	SPRING, COMPRESSION
326	3-307-391-00	SPRING
327	3-307-394-00	RETAINER (B), THRUST
328	3-307-395-00	RETAINER, SPRING
329	3-307-397-00	SLIDER, PAUSE
330	•;3-307-399-00	SLIDER, MODE
331	3-307-401-00	GEAR, FF CAM
332	•;3-307-403-00	SLIDER, FWD
333	3-307-412-00	GEAR, TAKE-UP REEL
334	•;3-307-420-00	SLIDER, REVERSE
335	•;3-307-421-00	LEVER (R), FWD SELECTION
336	3-307-423-00	GEAR (S), DRIVING
337	3-307-435-00	NUT, ADJUSTMENT, TAPE GUIDE
338	•;3-307-437-00	BLOCK, HEAD SELECTION
339	3-307-441-00	SPRING
340	•;3-307-443-00	BRACKET, RETAINER, SUPPLY GEAR
341	•;3-307-445-00	SHAFT, RETAINER, SUPPLY GEAR
342	3-307-447-00	CLAW (R), REEL
343	3-307-448-00	SCREW, ADJUSTMENT, AZIMUTH
344	•;3-307-449-00	LEVER (R), PAUSE
345	•;3-307-450-00	ROD, PULL, PAUSE

MECHANISM SECTION

No.	Part No.	Description
346	3-307-457-00	SPRING
347	3-307-458-00	PLATE (L), ADJUSTMENT, HEAD
348	3-307-460-00	SPRING, COMPRESSION
349	3-307-461-00	SPRING, TENSION
350	•;3-307-464-00	RETAINER, SUPPLY GEAR
351	3-307-465-00	RETAINER, TAKE-UP
352	•;3-307-466-00	CLAMP
353	•;3-307-467-00	RETAINER, SPRING
354	3-307-469-00	LEVER, SELECTION, SUPPLY
355	3-307-470-00	GUIDE (L), TAPE
356	3-307-477-41	SEAM (A), HEAD ADJUSTMENT (t=0.05)
356	3-307-477-01	SEAM (A), HEAD ADJUSTMENT (t=0.1)
356	3-307-477-11	SEAM (A), HEAD ADJUSTMENT (t=0.2)
356	3-307-477-21	SEAM (A), HEAD ADJUSTMENT (t=0.3)
356	3-307-477-31	SEAM (A), HEAD ADJUSTMENT (t=0.4)
357	3-307-480-00	SEAM (B), HEAD ADJUSTMENT (t=0.05)
357	3-307-479-01	SEAM (B), HEAD ADJUSTMENT (t=0.1)
357	3-307-479-11	SEAM (B), HEAD ADJUSTMENT (t=0.2)
357	3-307-479-21	SEAM (B), HEAD ADJUSTMENT (t=0.3)
357	3-307-479-31	SEAM (B), HEAD ADJUSTMENT (t=0.4)
358	3-307-481-00	BASE, HEAD
359	3-307-486-00	SPRING, COMPRESSION
360	3-307-487-00	STOPPER, FR
361	•;3-307-490-00	LEVER, FF
362	3-307-493-01	SPACER
362	3-307-493-11	SPACER
362	3-307-493-21	SPACER
362	3-307-493-31	SPACER
362	3-307-493-41	SPACER
362	3-307-493-51	SPACER
368	3-307-953-00	MAGNET, REEL TABLE
369	3-307-970-00	GEAR, FR
370	•;3-312-403-00	GEAR (S), PINION
371	3-312-405-00	PULLEY, DRIVING
372	3-312-406-00	GEAR (T), PINION
373	3-312-408-00	GEAR (B), CONVERSION
374	3-312-409-00	BELT, DRIVING
375	3-312-412-00	GEAR (B), CAM, FWD
376	•;3-312-414-00	RETAINER (B), HALF
377	3-312-415-00	GEAR, ROTARY HEAD
378	•;3-312-417-00	HOLDER, PC BOARD, HEAD
379	3-312-418-00	RUBBER, HOLDER, LAMP
380	•;3-312-422-00	BRACKET, MOTOR
381	•;3-312-423-00	RETAINER (H), THRUST
382	3-312-429-00	SPRING, COMPRESSION
383	3-312-432-00	SPRING, TENSION
384	

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MECHANISM SECTION

No.	Part No.	Description
385	3-538-051-00	RUBBER, BRAKE
386	3-555-169-00	SCREW, ADJUSTMENT
387	3-558-349-00	BELT, CAPSTAN
389	3-561-827-11	PLATE (A), HYSTERESIS
390	3-644-718-00	SPRING, COMPRESSION
391	3-701-438-11	WASHER, 2.5
392	.....
393	.....
394	3-701-467-00	SCREW, LOCK
395	7-621-255-00	SCREW +P 2X4
396	7-621-555-30	SCREW +K 2X5
397	7-621-731-08	SET SCREW 2X2.5
398	7-621-770-87	SCREW +P 2.6X5
399	7-621-772-00	SCREW +B 2X3
400	7-621-772-40	SCREW +B 2X8
401	7-621-775-40	SCREW +B 2.6X8
402	7-627-552-07	SCREW, PRECISION +P 1.7X2.5
403	7-671-111-11	STEEL BALL 1.5MM
404	7-685-750-01	SCREW +PTT 3X5 (S)
405	7-685-790-01	SCREW +PTT 2.6X4 (S)
406	7-685-860-04	SCREW +BVTT 2.6X4 (S)
407	7-687-204-21	TOTSU PTPWH 2X6 NON-SLIT, TYPE2
408	7-687-246-21	SCREW, TOTSU PTPWH 3X8, TYPE2
409	7-687-701-39	SCREW, TOTSU BTT 2.6X4
410	A-2142-022-A	PULLEY ASSY, FR
411	•;X-3307-305-0	LEVER ASSY, FWD LOCK
412	X-3307-307-6	PINCH ROLLER (N) ASSY
413	X-3307-312-0	LEVER ASSY, FR
414	X-3307-316-3	PINCH ROLLER (R) ASSY
415	•;X-3307-317-0	PLATE ASSY, FULCRUM, LEVER
416	•;X-3307-319-0	ARM (A) ASSY, PAUSE
417	3-312-428-00	ARM (B), PAUSE
418	X-3307-321-0	HOLDER ASSY, HEAD
419	X-3307-323-0	CHASSIS (R) ASSY, HEAD
420	X-3307-338-0	BEARING ASSY, CAPSTAN
421	X-3307-339-0	FLYWHEEL (H) ASSY
422	X-3307-341-2	PULLEY ASSY, DUMMY
423	X-3307-342-0	BEARING ASSY, DUMMY PULLEY
424	X-3307-348-0	LEVER ASSY, FF LOCK
425	X-3307-920-0	PLATE ASSY, ADJUSTMENT
426	X-3307-349-1	CHASSIS ASSY, MECHANISM
427	3-570-914-00	SPRING, TENSION

CAPACITORS:

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RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	▲.1-526-576-31	(E).....SELECTOR, POWER VOLTAGE
502	▲.1-526-609-00	(US).....CONNECTOR, AC OUTLET
502	▲.1-526-694-00	(AEP).....CONNECTOR, AC OUTLET
502	▲.1-526-751-00	(UK).....CONNECTOR, AC OUTLET
502	▲.1-526-882-00	(Canadian)...CONNECTOR, AC OUTLET
503	▲.1-533-131-00	HOLDER, FUSE
504	▲.1-551-479-00	(E).....CORD, POWER
504	▲.1-551-628-00	(US,Canadian)...CORD, POWER
504	▲.1-555-990-00	(AEP).....CORD, POWER
504	▲.1-556-560-00	(UK).....CORD, POWER
505	●;1-608-170-00	PC BOARD, HEAD TRANSLATION
506	●;1-608-268-00	PC BOARD, ERASE HEAD
507	●;1-609-542-00	PC BOARD, CONTROL SW
508	●;1-609-543-00	PC BOARD, FL
509	●;1-609-544-00	PC BOARD, TRANSLATION
510	●;1-609-545-00	PC BOARD, DOLBY SWITCH
511	●;1-609-546-00	PC BOARD, TAPE SWITCH
512	●;1-609-547-00	PC BOARD, PHOTO
513	●;1-609-548-00	PC BOARD, PLAYBACK
514	●;1-609-549-00	PC BOARD, RECORD
515	●;1-609-550-00	PC BOARD, REC VOL
516	●;1-609-551-00	PC BOARD, JACK
517	●;1-609-552-00	PC BOARD, SYSTEM CONTROL
518	●;1-609-553-00	PC BOARD, 9P REMOTE CONTROL
519	●;1-609-554-00	PC BOARD, TIMER SW
520	●;1-609-555-00	PC BOARD, 5P REMOTE CONTROL
521	●;1-609-556-00	PC BOARD, TRANSISTOR (A)
522	●;1-609-741-00	PC BOARD, TRANSISTOR (B)
523	●;1-610-222-00	PC BOARD, ISS
524	●;A-2056-194-A	MOUNTED PCB, AUDIO
525	●;A-2096-010-A	MOUNTED PCB, FL
526	●;1-609-872-00	(AEP)...PC BOARD, FUSE
C101	1-123-354-00	ELECT 3.3MF 20% 50V
C102	1-123-356-00	ELECT 10MF 20% 16V
C103	1-161-321-00	CERAMIC 680PF 10% 50V
C104	1-161-271-00	CERAMIC 100PF 5% 50V
C105	1-107-165-00	MICA 56PF 5% 500V
C106	1-161-322-00	CERAMIC 820PF 10% 50V
C107	1-107-167-00	MICA 75PF 5% 500V
C108	1-130-305-00	FILM 0.022MF 5% 100V
C109	1-123-353-00	ELECT 2.2MF 20% 50V
C110	1-108-571-00	MYLAR 0.0047MF 5% 50V
C111	1-161-316-00	CERAMIC 270PF 10% 50V
C112	1-123-319-00	ELECT 47MF 20% 16V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C113	1-123-319-00	ELECT 47MF 20% 16V
C114	1-123-353-00	ELECT 2.2MF 20% 50V
C115	1-130-630-00	FILM 0.068MF 5% 50V
C116	1-130-635-00	FILM 0.18MF 5% 50V
C117	1-130-634-00	FILM 0.15MF 5% 50V
C118	1-130-632-00	FILM 0.1MF 5% 50V
C119	1-130-621-00	FILM 0.012MF 5% 50V
C120	1-130-633-00	FILM 0.12MF 5% 50V
C121	1-130-632-00	FILM 0.1MF 5% 50V
C122	1-108-559-00	MYLAR 0.0015MF 5% 50V
C123	1-123-355-00	ELECT 10MF 20% 25V
C124	1-130-631-00	FILM 0.082MF 5% 50V
C125	1-108-575-00	MYLAR 0.0068MF 5% 50V
C126	1-130-628-00	FILM 0.047MF 5% 50V
C127	1-130-629-00	FILM 0.056MF 5% 50V
C128	1-108-570-00	MYLAR 0.0043MF 5% 50V
C129	1-123-369-00	ELECT 4.7MF 20% 50V
C130	1-123-319-00	ELECT 47MF 20% 16V
C131	1-123-319-00	ELECT 47MF 20% 16V
C132	1-123-356-00	ELECT 10MF 20% 16V
C133	1-130-634-00	FILM 0.15MF 5% 50V
C134	1-130-628-00	FILM 0.047MF 5% 50V
C135	1-130-625-00	FILM 0.027MF 5% 50V
C136	1-130-633-00	FILM 0.12MF 5% 50V
C137	1-123-356-00	ELECT 10MF 20% 25V
C138	1-130-631-00	FILM 0.082MF 5% 50V
C139	1-108-575-00	MYLAR 0.0068MF 5% 50V
C140	1-130-622-00	FILM 0.015MF 5% 50V
C141	1-130-623-00	FILM 0.018MF 5% 50V
C142	1-123-354-00	ELECT 3.3MF 20% 50V
C143	1-123-353-00	ELECT 2.2MF 20% 50V
C144	1-123-369-00	ELECT 4.7MF 20% 50V
C145	1-123-319-00	ELECT 47MF 20% 16V
C146	1-130-621-00	FILM 0.012MF 5% 50V
C147	1-108-565-00	MYLAR 0.0027MF 5% 50V
C148	1-130-627-00	FILM 0.039MF 5% 50V
C149	1-108-563-00	MYLAR 0.0022MF 5% 50V
C150	1-108-555-00	MYLAR 0.001MF 5% 50V
C151	1-130-627-00	FILM 0.039MF 5% 50V
C152	1-108-571-00	MYLAR 0.0047MF 5% 50V
C153	1-130-627-00	FILM 0.039MF 5% 50V
C154	1-141-225-00	CAP, TUNING, TRIMAR
C155	1-161-271-00	CERAMIC 100PF 5% 50V
C156	1-123-307-00	ELECT 100MF 20% 10V
C157	1-123-307-00	ELECT 100MF 20% 10V

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- All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μ H

The component identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C205	1-107-165-00	MICA	56PF	5%	500V
C207	1-107-167-00	MICA	75PF	5%	500V
C208	1-130-305-00	FILM	0.022MF	5%	100V
C215	1-130-630-00	FILM	0.068MF	5%	50V
C217	1-130-634-00	FILM	0.15MF	5%	50V
C218	1-130-632-00	FILM	0.1MF	5%	50V
C219	1-130-621-00	FILM	0.012MF	5%	50V
C221	1-130-632-00	FILM	0.1MF	5%	50V
C226	1-130-628-00	FILM	0.047MF	5%	50V
C227	1-130-629-00	FILM	0.056MF	5%	50V
C233	1-130-634-00	FILM	0.15MF	5%	50V
C234	1-130-628-00	FILM	0.047MF	5%	50V
C235	1-130-625-00	FILM	0.027MF	5%	50V
C241	1-130-623-00	FILM	0.018MF	5%	50V
C246	1-130-621-00	FILM	0.012MF	5%	50V
C248	1-130-627-00	FILM	0.039MF	5%	50V
C251	1-130-627-00	FILM	0.039MF	5%	50V
C253	1-130-627-00	FILM	0.039MF	5%	50V
C254	1-141-225-00	CAP, TUNING, TRIMAR			
C503	1-123-356-00	ELECT	10MF	20%	16V
C504	1-123-308-00	ELECT	220MF	20%	10V
C505	1-123-308-00	ELECT	220MF	20%	10V
C506	1-123-354-00	ELECT	3.3MF	20%	50V
C507	1-129-714-00	FILM	0.01MF	10%	630V
C508	1-130-295-00	FILM	0.0082MF	5%	100V
C509	1-130-291-00	FILM	0.0056MF	5%	100V
C510	1-130-291-00	FILM	0.0056MF	5%	100V
C511	1-123-353-00	ELECT	2.2MF	20%	50V
C512	1-123-351-00	ELECT	0.47MF	20%	50V
C513	1-130-620-00	FILM	0.01MF	5%	50V
C514	1-123-369-00	ELECT	4.7MF	20%	50V
C515	1-123-351-00	ELECT	0.47MF	20%	50V
C516	1-123-321-00	ELECT	220MF	20%	16V
C517	1-123-321-00	ELECT	220MF	20%	16V
C518	1-123-320-00	ELECT	100MF	20%	16V
C519	1-123-320-00	ELECT	100MF	20%	16V
C520	1-123-337-00	ELECT	1000MF	20%	25V
C521	1-123-337-00	ELECT	1000MF	20%	25V
C522	1-123-369-00	ELECT	4.7MF	20%	50V
C701	1-130-632-00	FILM	0.1MF	5%	50V
C702	1-123-306-00	ELECT	47MF	20%	10V
C703	1-123-353-00	ELECT	2.2MF	20%	50V
C704	1-161-283-00	CERAMIC	22PF	5%	50V
C705	1-161-283-00	CERAMIC	22PF	5%	50V
C706	1-123-351-00	ELECT	0.47MF	20%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C707	1-123-351-00	ELECT	0.47MF	20%	50V
C708	1-123-351-00	ELECT	0.47MF	20%	50V
C709	1-123-351-00	ELECT	0.47MF	20%	50V
C710	1-123-351-00	ELECT	0.47MF	20%	50V
C711	1-123-351-00	ELECT	0.47MF	20%	50V
C712	1-123-351-00	ELECT	0.47MF	20%	50V
C713	1-123-351-00	ELECT	0.47MF	20%	50V
C714	1-161-045-00	CERAMIC	0.0033MF	20%	50V
C715	1-161-045-00	CERAMIC	0.0033MF	20%	50V
C716	1-123-319-00	ELECT	47MF	20%	16V
C717	1-123-295-00	ELECT	100MF	20%	6.3V
C718	1-123-333-00	ELECT	100MF	20%	25V
C719	1-161-379-00	CERAMIC	0.01MF	20%	25V
C720	1-161-379-00	CERAMIC	0.01MF	20%	25V
C721	1-130-625-00	FILM	0.027MF	5%	50V
C722	1-130-625-00	FILM	0.027MF	5%	50V
C723	1-123-353-00	ELECT	2.2MF	20%	50V
C724	1-161-379-00	CERAMIC	0.01MF	20%	25V
C725	1-161-379-00	CERAMIC	0.01MF	20%	25V
C726	1-123-351-00	ELECT	0.47MF	20%	50V
C727	1-123-298-00	ELECT	470MF	20%	6.3V
C728	1-131-369-00	TANTALUM	4.7MF	20%	16V
C729	1-123-353-00	ELECT	2.2MF	20%	50V
C730	1-123-296-00	ELECT	220MF	20%	6.3V
C731	1-123-319-00	ELECT	47MF	20%	16V
C732	1-123-319-00	ELECT	47MF	20%	16V
C733	1-123-353-00	ELECT	2.2MF	20%	50V
C734	1-123-380-00	ELECT	1MF	20%	50V
C735	1-123-307-00	ELECT	100MF	20%	10V
C736	1-123-321-00	ELECT	220MF	20%	16V
C737	1-123-356-00	ELECT	10MF	20%	16V
C738	1-123-349-00	ELECT	1000MF	20%	35V
C739	1-123-325-00	ELECT	2200MF	20%	16V
C740	1-123-328-00	ELECT	4.7MF	20%	25V
C741	1-131-347-00	TANTALUM	1MF	20%	35V
C742	1-123-295-00	ELECT	100MF	20%	6.3V
C801	1-123-353-00	ELECT	2.2MF	20%	50V
C802	1-123-353-00	ELECT	2.2MF	20%	50V
C803	1-123-353-00	ELECT	2.2MF	20%	50V
C804	1-123-353-00	ELECT	2.2MF	20%	50V
C805	1-130-626-00	FILM	0.033MF	5%	50V
C806	1-123-332-00	ELECT	47MF	20%	25V
C1000	1-161-749-00	(US,Canadian)..CAP, CERAMIC 10000PF 125V			
C1000	1-161-744-00	(AEP,UK,E).....CAP, CERAMIC 10000PF 400V			

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers.
MF: μ F, PF: μ pF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μ H

ELECTRICAL PARTS

Ref.No.	Part No.	Description
CNJ501	1-507-761-00	JACK, PIN 4P
●CNJ701	1-560-263-00	CONNECTOR PIN 9P
CNJ702	1-561-965-00	SOCKET 5P
CNP1	●1-560-061-31	PIN, CONNECTOR 3P
CNP2	●1-560-062-41	PIN, CONNECTOR 4P
CNP3	●1-560-060-41	PIN, CONNECTOR 2P
CNP4	●1-560-064-00	PIN, CONNECTOR 6P
CNP5	●1-560-060-00	PIN, CONNECTOR 2P
CNP6	●1-560-060-00	PIN, CONNECTOR 2P
CNP7	●1-560-062-41	PIN, CONNECTOR 4P
CNP8	●1-560-062-00	PIN, CONNECTOR 4P
CNP9	●1-560-062-31	PIN, CONNECTOR 4P
●CNP502	1-560-062-41	PIN, CONNECTOR 4P
●CNP503	1-560-061-41	PIN, CONNECTOR 3P
●CNP701	1-560-064-21	PIN, CONNECTOR 6P
●CNP702	1-560-064-41	PIN, CONNECTOR 6P
●CNP703	1-560-060-00	PIN, CONNECTOR 2P
●CNP704	1-560-063-00	PIN, CONNECTOR 5P
●CNP705	1-560-062-00	PIN, CONNECTOR 4P
●CNP706	1-560-063-00	PIN, CONNECTOR 5P
●CNP707	1-560-061-41	PIN, CONNECTOR 3P
●CNP708	1-560-061-21	PIN, CONNECTOR 3P
●CNP709	1-560-064-00	PIN, CONNECTOR 6P
●CNP710	1-560-060-31	PIN, CONNECTOR 2P
●CNP711	1-560-060-00	PIN, CONNECTOR 2P
●CNP712	1-560-063-21	PIN, CONNECTOR 5P
●CNP713	1-560-064-31	PIN, CONNECTOR 6P
●CNP714	1-560-060-41	PIN, CONNECTOR 2P
●CNP715	1-560-060-21	PIN, CONNECTOR 2P
●CNP716	1-560-061-00	PIN, CONNECTOR 3P
●CNP717	1-560-061-00	PIN, CONNECTOR 3P
D501	8-719-815-55	DIODE 1S1555
D502	8-719-815-55	DIODE 1S1555
D503	8-719-815-55	DIODE 1S1555
D504	8-719-815-55	DIODE 1S1555
D505	8-719-815-55	DIODE 1S1555
D506	8-719-815-55	DIODE 1S1555
D507	8-719-815-55	DIODE 1S1555
D508	8-719-815-55	DIODE 1S1555
D509	8-719-910-64	DIODE HZ6B1L
D510	8-719-910-64	DIODE HZ6B1L
D511	8-719-200-02	DIODE 10E-2
D512	8-719-200-02	DIODE 10E-2
D513	8-719-200-02	DIODE 10E-2
D514	8-719-200-02	DIODE 10E-2
D515	8-719-815-55	DIODE 1S1555

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D516	8-719-815-55	DIODE 1S1555
D701	8-719-815-55	DIODE 1S1555
D702	8-719-815-55	DIODE 1S1555
D703	8-719-815-55	DIODE 1S1555
D704	8-719-815-55	DIODE 1S1555
D705	8-719-815-55	DIODE 1S1555
D706	8-719-200-02	DIODE 10E-2
D707	8-719-815-55	DIODE 1S1555
D708	8-719-815-55	DIODE 1S1555
D709	8-719-990-92	DIODE HZ9A2L
D710	8-719-815-55	DIODE 1S1555
D712	8-719-815-55	DIODE 1S1555
D713	8-719-200-02	DIODE 10E-2
D714	8-719-200-02	DIODE 10E-2
D715	8-719-200-02	DIODE 10E-2
D716	8-719-200-02	DIODE 10E-2
D717	8-719-931-07	DIODE EQB01-07
D718	8-719-910-15	DIODE HZ11R2L
D719	8-719-910-68	DIODE HZ6C2L
D720	8-719-910-43	DIODE HZ24-3L
D721	8-719-903-49	DIODE SLH-54PC3
D722	8-719-903-49	DIODE SLH-54PC3
D723	8-719-904-08	DIODE SLH-54VC3
D724	8-719-904-07	DIODE SLH-54DC3
D726	8-719-910-29	DIODE HZ12C3L
D727	8-719-200-02	DIODE 10E-2
D728	8-719-815-55	DIODE 1S1555
D729	8-719-815-55	DIODE 1S1555
D730	8-719-101-44	DIODE RD4.3EL3
D801	8-719-911-19	DIODE 1SS119
D802	8-719-911-19	DIODE 1SS119
D803	8-719-911-19	DIODE 1SS119
D804	8-719-911-19	DIODE 1SS119
D805	8-719-910-66	DIODE HZ6B3L
D806	8-719-904-14	DIODE PY5724K
D807	8-719-904-14	DIODE PY5724K
D808	8-719-904-14	DIODE PY5724K
D809	8-719-904-14	DIODE PY5724K
D811	8-719-903-49	DIODE SLH-54PC3
D812	8-719-903-49	DIODE SLH-54PC3
F1	1-532-536-00	(US,Canadian)...FUSE, GLASS-TUBE
F1	1-532-078-00	(AEP,UK,E).....FUSE, TIME-LAG
F2	1-532-536-00	(US,Canadian)...FUSE, GLASS-TUBE
F2	1-532-078-00	(AEP,UK,E).....FUSE, TIME-LAG
F3	1-532-078-00	(AEP).....FUSE, TIME-LAG

ELECTRICAL PARTS

Ref.No.	Part No.	Description
FLT	1-519-284-00	INDICATOR TUBE, FLUORESCENT
HE	8-825-535-20	HEAD, ERASE (ES237-36)
HRE	8-825-548-10	HEAD, R/P (PA242-3602)
IC101	8-759-300-76	IC CX-174A-2
IC102	8-759-300-76	IC CX-174A-2
IC201	8-759-300-76	IC CX-174A-2
IC202	8-759-300-76	IC CX-174A-2
IC501	8-759-700-39	IC NJM4562S-D
IC502	8-759-600-02	IC M5218L
IC701	8-755-640-30	IC CX564-03
IC702	8-759-600-54	IC M50783SP
IC703	8-759-812-90	IC LB1290
IC704	8-759-800-57	IC LB1262
IC705	8-759-240-50	IC TC4050BP
IC706	8-759-240-50	IC TC4050BP
IC707	8-759-700-46	IC CX10034
IC708	8-759-962-08	IC BA6208
IC801	8-759-905-48	IC MSL9512RS
IC802	8-759-906-02	IC BA6146
IC803	8-759-906-02	IC BA6146
L101	1-408-262-00	MICRO INDUCTOR 27MMH
L102	1-408-255-00	MICRO INDUCTOR 6.8MMH
L103	1-408-260-00	MICRO INDUCTOR 18MMH
L104	1-408-259-00	MICRO INDUCTOR 15MMH
L201	1-408-262-00	MICRO INDUCTOR 27MMH
L202	1-408-255-00	MICRO INDUCTOR 6.8MMH
L203	1-408-260-00	MICRO INDUCTOR 18MMH
L204	1-408-259-00	MICRO INDUCTOR 15MMH
L501	1-407-177-XX	MICRO INDUCTOR 470UH
L701	1-407-169-XX	MICRO INDUCTOR 100UH
L702	1-407-169-XX	MICRO INDUCTOR 100UH
L703	1-407-169-XX	MICRO INDUCTOR 100UH
L704	1-407-169-XX	MICRO INDUCTOR 100UH
L705	1-407-169-XX	MICRO INDUCTOR 100UH
L706	1-407-169-XX	MICRO INDUCTOR 100UH
L707	1-407-169-XX	MICRO INDUCTOR 100UH
L708	1-407-169-XX	MICRO INDUCTOR 100UH
L709	1-407-169-XX	MICRO INDUCTOR 100UH
LPF101	1-231-388-00	FILTER, LOWPASS
LPF201	1-231-388-00	FILTER, LOWPASS
M1	X-3307-340-0	MOTOR (H) ASSY
M2	X-3312-903-0	MOTOR (L) ASSY
PL901	1-518-259-00	LAMP, PILOT

ELECTRICAL PARTS

Ref.No.	Part No.	Description
PM1	1-454-316-00	SOLENOID, PLUNGER
PM2	1-454-316-00	SOLENOID, PLUNGER
Q101	8-729-334-58	TRANSISTOR 2SC1345
Q102	8-729-663-48	TRANSISTOR 2SC1364-8
Q103	8-729-663-48	TRANSISTOR 2SC1364-8
Q104	8-729-663-48	TRANSISTOR 2SC1364-8
Q105	8-729-663-48	TRANSISTOR 2SC1364-8
Q106	8-729-663-48	TRANSISTOR 2SC1364-8
Q107	8-729-663-48	TRANSISTOR 2SC1364-8
Q108	8-729-663-48	TRANSISTOR 2SC1364-8
Q109	8-729-663-48	TRANSISTOR 2SC1364-8
Q110	8-729-663-48	TRANSISTOR 2SC1364-8
Q111	8-729-663-48	TRANSISTOR 2SC1364-8
Q112	8-729-663-48	TRANSISTOR 2SC1364-8
Q113	8-729-663-48	TRANSISTOR 2SC1364-8
Q114	8-729-663-48	TRANSISTOR 2SC1364-8
Q115	8-729-663-48	TRANSISTOR 2SC1364-8
Q116	8-729-663-48	TRANSISTOR 2SC1364-8
Q117	8-729-663-48	TRANSISTOR 2SC1364-8
Q118	8-729-100-13	TRANSISTOR 2SC2001-K2
Q201	8-729-334-58	TRANSISTOR 2SC1345-E
Q202	8-729-663-48	TRANSISTOR 2SC1364-8
Q203	8-729-663-48	TRANSISTOR 2SC1364-8
Q204	8-729-663-48	TRANSISTOR 2SC1364-8
Q205	8-729-663-48	TRANSISTOR 2SC1364-8
Q206	8-729-663-48	TRANSISTOR 2SC1364-8
Q207	8-729-663-48	TRANSISTOR 2SC1364-8
Q208	8-729-663-48	TRANSISTOR 2SC1364-8
Q209	8-729-663-48	TRANSISTOR 2SC1364-8
Q210	8-729-663-48	TRANSISTOR 2SC1364-8
Q211	8-729-663-48	TRANSISTOR 2SC1364-8
Q212	8-729-663-48	TRANSISTOR 2SC1364-8
Q213	8-729-663-48	TRANSISTOR 2SC1364-8
Q214	8-729-663-48	TRANSISTOR 2SC1364-8
Q215	8-729-663-48	TRANSISTOR 2SC1364-8
Q216	8-729-663-48	TRANSISTOR 2SC1364-8
Q217	8-729-663-48	TRANSISTOR 2SC1364-8
Q218	8-729-100-13	TRANSISTOR 2SC2001-K2
Q501	8-729-663-48	TRANSISTOR 2SC1364-8
Q502	8-729-602-67	TRANSISTOR 2SA1026-7
Q503	8-729-663-48	TRANSISTOR 2SC1364-8
Q504	8-729-663-48	TRANSISTOR 2SC1364-8
Q505	8-729-663-47	TRANSISTOR 2SC1364
Q506	8-729-663-47	TRANSISTOR 2SC1364

NOTE:

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- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
- MF: μF, PF: μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F: nonflammable

COILS

- MMH: mH, UH: μH

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
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CAPACITORS:

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- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
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COILS

- MMH: mH, UH: μH

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q507	8-729-663-48	TRANSISTOR 2SC1364-8			
Q508	8-729-602-67	TRANSISTOR 2SA1026-7			
Q509	8-729-663-48	TRANSISTOR 2SC1364-8			
Q510	8-729-663-48	TRANSISTOR 2SC1364-8			
Q511	8-729-602-67	TRANSISTOR 2SA1026-7			
Q512	8-729-141-42	TRANSISTOR 2SD414			
Q513	8-729-315-22	TRANSISTOR 2SD1152			
Q514	8-729-315-22	TRANSISTOR 2SD1152			
Q515	8-729-203-02	TRANSISTOR 2SK30A-0			
Q516	8-729-384-48	TRANSISTOR 2SA844			
Q517	8-729-384-48	TRANSISTOR 2SA844			
Q518	8-729-154-83	TRANSISTOR 2SB548			
Q519	8-729-203-02	TRANSISTOR 2SK30A-0			
Q701	8-729-602-67	TRANSISTOR 2SA1026-7			
Q702	8-729-602-67	TRANSISTOR 2SA1026-7			
Q703	8-729-663-47	TRANSISTOR 2SC1364			
Q704	8-729-663-47	TRANSISTOR 2SC1364			
Q705	8-729-502-67	TRANSISTOR 2SA1026-7			
Q706	8-729-177-43	TRANSISTOR 2SD774			
Q707	8-729-663-47	TRANSISTOR 2SC1364			
Q708	8-729-201-78	TRANSISTOR 2SD1406			
Q709	8-729-602-67	TRANSISTOR 2SA1026-7			
Q711	8-729-663-47	TRANSISTOR 2SC1364			
Q712	8-729-180-92	TRANSISTOR 2SD809-K			
Q713	8-729-602-67	TRANSISTOR 2SA1026-7			
Q714	8-729-663-47	TRANSISTOR 2SC1364			
Q715	8-729-663-47	TRANSISTOR 2SC1364			
Q717	8-729-602-67	TRANSISTOR 2SA1026-7			
Q718	8-729-602-67	TRANSISTOR 2SA1026-7			
Q719	8-729-602-67	TRANSISTOR 2SA1026-7			
Q720	8-729-602-67	TRANSISTOR 2SA1026-7			
Q901	8-729-110-21	TRANSISTOR PH102-K			
Q902	8-729-110-21	TRANSISTOR PH102-K			
R005	1-246-489-00	CARBON	4.7K	5%	1/4W
R006	1-246-489-00	CARBON	4.7K	5%	1/4W
R101	1-246-509-00	CARBON	33K	5%	1/4W
R102	1-246-473-00	CARBON	1K	5%	1/4W
R103	1-246-529-00	CARBON	220K	5%	1/4W
R104	1-246-489-00	CARBON	4.7K	5%	1/4W
R105	1-246-473-00	CARBON	1K	5%	1/4W
R106	1-246-485-00	CARBON	3.3K	5%	1/4W
R107	1-246-465-00	CARBON	470	5%	1/4W
R108	1-246-493-00	CARBON	6.8K	5%	1/4W
R109	1-246-473-00	CARBON	1K	5%	1/4W
R110	1-246-506-00	CARBON	24K	5%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R111	1-214-705-00	METAL	150	1%	1/4W
R112	1-246-524-00	CARBON	130K	5%	1/4W
R113	1-214-746-00	METAL	5.1K	1%	1/4W
R114	1-246-497-00	CARBON	10K	5%	1/4W
R116	1-246-499-00	CARBON	12K	5%	1/4W
R117	1-246-503-00	CARBON	18K	5%	1/4W
R118	1-246-529-00	CARBON	220K	5%	1/4W
R119	1-246-473-00	CARBON	1K	5%	1/4W
R120	1-247-903-00	CARBON	1M	5%	1/6W
R121	1-246-501-00	CARBON	15K	5%	1/4W
R122	1-246-501-00	CARBON	15K	5%	1/4W
R123	1-246-501-00	CARBON	15K	5%	1/4W
R124	1-247-859-00	CARBON	15K	5%	1/6W
R125	1-246-545-00	CARBON	1M	5%	1/4W
R126	1-247-888-00	CARBON	240K	5%	1/6W
R127	1-247-888-00	CARBON	240K	5%	1/6W
R128	1-247-865-00	CARBON	27K	5%	1/6W
R129	1-247-857-00	CARBON	12K	5%	1/6W
R130	1-247-859-00	CARBON	15K	5%	1/6W
R131	1-246-492-00	CARBON	6.2K	5%	1/4W
R132	1-246-436-00	CARBON	30	5%	1/4W
R133	1-246-502-00	CARBON	16K	5%	1/4W
R134	1-247-803-00	CARBON	68	5%	1/6W
R135	1-246-545-00	CARBON	1M	5%	1/4W
R136	1-247-886-00	CARBON	200K	5%	1/6W
R137	1-247-839-00	CARBON	2.2K	5%	1/6W
R138	1-246-501-00	CARBON	15K	5%	1/4W
R139	1-246-545-00	CARBON	1M	5%	1/4W
R140	1-246-509-00	CARBON	33K	5%	1/4W
R141	1-246-508-00	CARBON	30K	5%	1/4W
R142	1-246-475-00	CARBON	1.2K	5%	1/4W
R143	1-246-455-00	CARBON	180	5%	1/4W
R144	1-246-453-00	CARBON	150	5%	1/4W
R145	1-246-459-00	CARBON	270	5%	1/4W
R146	1-246-533-00	CARBON	330K	5%	1/4W
R147	1-214-737-00	METAL	2.2K	1%	1/4W
R148	1-247-859-00	CARBON	15K	5%	1/6W
R149	1-246-504-00	CARBON	20K	5%	1/4W
R150	1-246-485-00	CARBON	3.3K	5%	1/4W
R151	1-246-497-00	CARBON	10K	5%	1/4W
R152	1-246-485-00	CARBON	3.3K	5%	1/4W
R153	1-246-529-00	CARBON	220K	5%	1/4W
R154	1-247-888-00	CARBON	240K	5%	1/6W
R155	1-247-888-00	CARBON	240K	5%	1/6W
R156	1-247-821-00	CARBON	390	5%	1/6W

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (△-△△△-△△△-XX or △-△△△△-△△△-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers.

MF: μF , PF: μF .

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R157	1-247-871-00	CARBON
R158	1-214-966-00	METAL
R159	1-246-490-00	CARBON
R160	1-246-502-00	CARBON
R161	1-246-475-00	CARBON
R162	1-246-467-00	CARBON
R163	1-246-510-00	CARBON
R164	1-246-473-00	CARBON
R165	1-246-477-00	CARBON
R166	1-246-484-00	CARBON
R167	1-246-533-00	CARBON
R168	1-246-511-00	CARBON
R169	1-246-490-00	CARBON
R170	1-247-830-00	CARBON
R171	1-246-457-00	CARBON
R172	1-246-501-00	CARBON
R173	1-246-507-00	CARBON
R174	1-246-493-00	CARBON
R175	1-246-473-00	CARBON
R176	1-246-529-00	CARBON
R177	1-246-473-00	CARBON
R178	1-214-737-00	METAL
R179	1-247-839-00	CARBON
R180	1-246-497-00	CARBON
R181	1-246-509-00	CARBON
R182	1-246-521-00	CARBON
R183	1-246-521-00	CARBON
R184	1-246-473-00	CARBON
R185	1-246-519-00	CARBON
R186	1-246-519-00	CARBON
R187	1-247-871-00	CARBON
R188	1-247-841-00	CARBON
R189	1-247-807-00	CARBON
R190	1-247-855-00	CARBON
R191	1-247-829-00	CARBON
R192	1-247-863-00	CARBON
R193	1-247-848-00	CARBON
R194	1-247-823-00	CARBON
R195	1-247-855-00	CARBON
R196	1-247-833-00	CARBON
R197	1-247-839-00	CARBON
R198	1-247-826-00	CARBON
R199	1-247-848-00	CARBON
R200	1-214-746-00	METAL
R201	1-214-737-00	METAL

ELECTRICAL PARTS

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
R258	1-214-966-00	METAL	R534	1-214-966-00	METAL
R278	1-214-737-00	METAL	R535	1-214-737-00	METAL
R301	1-247-845-00	CARBON	R536	1-247-845-00	CARBON
R302	1-247-863-00	CARBON	R537	1-247-863-00	CARBON
R303	1-247-863-00	CARBON	R538	1-247-863-00	CARBON
R304	1-247-863-00	CARBON	R539	1-247-863-00	CARBON
R305	1-247-863-00	CARBON	R540	1-247-863-00	CARBON
R306	1-246-497-00	CARBON	R541	1-246-497-00	CARBON
R401	1-247-845-00	CARBON	R555	1-247-845-00	CARBON
R402	1-247-863-00	CARBON	R556	1-247-863-00	CARBON
R403	1-247-863-00	CARBON	R557	1-247-863-00	CARBON
R404	1-247-863-00	CARBON	R558	1-247-863-00	CARBON
R405	1-247-863-00	CARBON	R701	1-247-863-00	CARBON
R406	1-246-497-00	CARBON	R702	1-246-497-00	CARBON
R501	1-246-489-00	CARBON	R703	1-246-489-00	CARBON
R502	1-246-505-00	CARBON	R704	1-246-505-00	CARBON
R503	1-246-513-00	CARBON	R705	1-246-513-00	CARBON
R504	1-246-521-00	CARBON	R706	1-246-521-00	CARBON
R505	1-246-465-00	CARBON	R707	1-246-465-00	CARBON
R506	1-246-465-00	CARBON	R708	1-246-465-00	CARBON
R507	1-246-497-00	CARBON	R709	1-246-497-00	CARBON
R508	1-246-489-00	CARBON	R710	1-246-489-00	CARBON
R509	1-246-509-00	CARBON	R711	1-246-509-00	CARBON
R510	1-246-507-00	CARBON	R712	1-246-507-00	CARBON
R511	1-246-507-00	CARBON	R713	1-246-507-00	CARBON
R512	1-246-427-00	CARBON	R714	1-246-427-00	CARBON
R513	1-217-531-00	FUSIBLE	R715	1-217-531-00	FUSIBLE
R514	1-246-497-00	CARBON	R716	1-246-497-00	CARBON
R515	1-246-513-00	CARBON	R717	1-246-513-00	CARBON
R516	1-246-495-00	CARBON	R718	1-246-495-00	CARBON
R517	1-246-497-00	CARBON	R719	1-246-497-00	CARBON
R518	1-246-489-00	CARBON	R720	1-246-489-00	CARBON
R521	1-246-505-00	CARBON	R721	1-246-505-00	CARBON
R522	1-246-513-00	CARBON	R722	1-246-513-00	CARBON
R523	1-246-449-00	CARBON	R723	1-246-449-00	CARBON
R524	1-246-509-00	CARBON	R724	1-246-509-00	CARBON
R525	1-246-487-00	CARBON	R725	1-246-487-00	CARBON
R526	1-214-725-00	METAL	R726	1-214-725-00	METAL
R527	1-214-730-00	METAL	R727	1-214-730-00	METAL
R528	1-214-730-00	METAL	R728	1-214-730-00	METAL
R529	1-214-725-00	METAL	R729	1-214-725-00	METAL
R530	1-246-497-00	CARBON	R730	1-246-497-00	CARBON
R531	1-246-497-00	CARBON	R731	1-246-497-00	CARBON
R532	1-247-863-00	CARBON	R732	1-247-863-00	CARBON
R533	1-247-871-00	CARBON	R733	1-247-871-00	CARBON

with no part number and no description are not stocked because they are seldom required for routine service.

marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

standardization, parts with part numbers (A-XXXX-XX or A-XXXX-XX-X) different from those used in the

CAPACITORS:

All capacitors are in pF. Common capacitors are omitted. Refer to the following lists for their part numbers.

MF: pF, PF: pF.

RESISTORS

All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

F: nonflammable

COILS

MMH: mH, UH: uH

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

NOTE:

Items with no part number and no description are not stocked because they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Due to standardization, parts with part numbers (A-XXXX-XX or A-XXXX-XX-X) different from those used in the

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R534	1-247-863-00	CARBON	22K	5%	1/6W
R535	1-246-487-00	CARBON	3.9K	5%	1/4W
R536	1-246-480-00	CARBON	2K	5%	1/4W
R537	1-246-485-00	CARBON	3.3K	5%	1/4W
R538	1-246-467-00	CARBON	560	5%	1/4W
R539	1-246-529-00	CARBON	220K	5%	1/4W
R540	1-246-497-00	CARBON	10K	5%	1/4W
R541	1-246-521-00	CARBON	100K	5%	1/4W
R555	1-212-849-00	FUSIBLE	4.7	5%	1/4W F
R556	1-212-849-00	FUSIBLE	4.7	5%	1/4W F
R557	1-246-471-00	CARBON	820	5%	1/4W
R558	1-246-471-00	CARBON	820	5%	1/4W
R701	1-246-521-00	CARBON	100K	5%	1/4W
R702	1-246-521-00	CARBON	100K	5%	1/4W
R703	1-246-497-00	CARBON	10K	5%	1/4W
R704	1-246-477-00	CARBON	1.5K	5%	1/4W
R705	1-247-871-00	CARBON	47K	5%	1/6W
R706	1-246-505-00	CARBON	22K	5%	1/4W
R707	1-246-505-00	CARBON	22K	5%	1/4W
R708	1-246-505-00	CARBON	22K	5%	1/4W
R709	1-246-505-00	CARBON	22K	5%	1/4W
R710	1-246-505-00	CARBON	22K	5%	1/4W
R711	1-246-505-00	CARBON	22K	5%	1/4W
R712	1-246-505-00	CARBON	22K	5%	1/4W
R713	1-246-505-00	CARBON	22K	5%	1/4W
R714	1-246-473-00	CARBON	1K	5%	1/4W
R715	1-246-473-00	CARBON	1K	5%	1/4W
R716	1-246-473-00	CARBON	1K	5%	1/4W
R717	1-246-473-00	CARBON	1K	5%	1/4W
R718	1-246-473-00	CARBON	1K	5%	1/4W
R719	1-246-473-00	CARBON	1K	5%	1/4W
R720	1-246-473-00	CARBON	1K	5%	1/4W
R721	1-246-473-00	CARBON	1K	5%	1/4W
R722	1-246-457-00	CARBON	220	5%	1/4W
R723	1-246-457-00	CARBON	220	5%	1/4W
R724	1-246-459-00	CARBON	270	5%	1/4W
R725	1-246-459-00	CARBON	270	5%	1/4W
R726	1-247-871-00	CARBON	47K	5%	1/6W
R727	1-247-863-00	CARBON	22K	5%	1/6W
R728	1-247-863-00	CARBON	22K	5%	1/6W
R729	1-247-871-00	CARBON	47K	5%	1/6W
R730	1-247-895-00	CARBON	470K	5%	1/6W
R731	1-246-537-00	CARBON	470K	5%	1/4W
R732	1-246-513-00	CARBON	47K	5%	1/4W
R733	1-246-513-00	CARBON	47K	5%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R734	1-246-497-00	CARBON	10K	5%	1/4W
R735	1-246-505-00	CARBON	22K	5%	1/4W
R736	1-244-867-00	CARBON	560	5%	1/2W
R738	1-246-475-00	CARBON	1.2K	5%	1/4W
R739	1-246-489-00	CARBON	4.7K	5%	1/4W
R740	1-246-497-00	CARBON	10K	5%	1/4W
R743	1-246-412-00	CARBON	3	5%	1/4W
R744	1-246-473-00	CARBON	1K	5%	1/4W
R745	1-246-489-00	CARBON	4.7K	5%	1/4W
R746	1-247-821-91	CARBON	390	5%	1/6W
R747	1-244-867-00	CARBON	560	5%	1/2W
R748	1-246-490-00	CARBON	5.1K	5%	1/4W
R749	1-246-505-00	CARBON	22K	5%	1/4W
R750	1-246-505-00	CARBON	22K	5%	1/4W
R751	1-246-521-00	CARBON	100K	5%	1/4W
R752	1-246-513-00	CARBON	47K	5%	1/4W
R753	1-247-863-00	CARBON	22K	5%	1/6W
R754	1-247-847-00	CARBON	4.7K	5%	1/6W
R755	1-246-477-00	CARBON	1.5K	5%	1/4W
R756	1-246-477-00	CARBON	1.5K	5%	1/4W
R757	1-246-505-00	CARBON	22K	5%	1/4W
R758	1-246-531-00	CARBON	270K	5%	1/4W
R759	1-246-449-00	CARBON	100	5%	1/4W
R760	1-246-497-00	CARBON	10K	5%	1/4W
R761	1-246-505-00	CARBON	22K	5%	1/4W
R762	1-246-512-00	CARBON	43K	5%	1/4W
R763	1-246-495-00	CARBON	8.2K	5%	1/4W
R764	1-246-473-00	CARBON	1K	5%	1/4W
R765	1-246-489-00	CARBON	4.7K	5%	1/4W
R766	1-246-513-00	CARBON	47K	5%	1/4W
R767	1-244-857-00	CARBON	220	5%	1/2W
R769	1-214-764-00	METAL	30K	1%	1/4W
R770	1-246-489-00	CARBON	4.7K	5%	1/4W
R771	1-246-505-00	CARBON	22K	5%	1/4W
R772	1-246-467-00	CARBON	560	5%	1/4W
R773	1-246-489-00	CARBON	4.7K	5%	1/4W
R774	1-246-439-00	CARBON	39	5%	1/4W
R775	1-244-882-00	CARBON	2.4K	5%	1/2W
R776	1-246-441-00	CARBON	47	5%	1/4W
R778	1-246-513-00	CARBON	47K	5%	1/4W
R801	1-247-883-00	CARBON	150K	5%	1/6W
R802	1-247-855-00	CARBON	10K	5%	1/6W
R803	1-247-883-00	CARBON	150K	5%	1/6W
R804	1-247-855-00	CARBON	10K	5%	1/6W
R805	1-247-855-00	CARBON	10K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R806	1-247-813-00	CARBON	180	5%	1/6W
R807	1-247-825-00	CARBON	560	5%	1/6W
R808	1-246-451-00	CARBON	120	5%	1/4W
RV101	1-226-236-00	RES, ADJ, CARBON 10K			
RV102	1-226-237-00	RES, ADJ, CARBON 20K			
RV103	1-226-236-00	RES, ADJ, CARBON 10K			
RV201	1-226-236-00	RES, ADJ, CARBON 10K			
RV202	1-226-237-00	RES, ADJ, CARBON 20K			
RV203	1-226-236-00	RES, ADJ, CARBON 10K			
RV501	1-226-991-00	RES, VAR, SLIDE 20K/20K			
RY501	1-515-473-00	RELAY			
S1	1-554-410-00	SWITCH, LEAF			
S2	1-554-411-00	SWITCH, PUSH (1 KEY)			
S3	1-554-422-00	SWITCH, PUSH (1 KEY)			
S4	1-554-411-00	SWITCH, PUSH (1 KEY)			
S5	1-554-411-00	SWITCH, PUSH (1 KEY)			
S501	1-554-423-00	SWITCH, SLIDE			
S502	1-553-802-00	SWITCH, SLIDE			
S701	1-554-303-00	SWITCH, KEY BOARD			
S702	1-554-303-00	SWITCH, KEY BOARD			
S703	1-554-303-00	SWITCH, KEY BOARD			
S704	1-554-303-00	SWITCH, KEY BOARD			
S705	1-554-303-00	SWITCH, KEY BOARD			
S706	1-554-303-00	SWITCH, KEY BOARD			
S707	1-554-303-00	SWITCH, KEY BOARD			
S708	1-554-303-00	SWITCH, KEY BOARD			

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
S710	1-554-208-00	SWITCH, SLIDE			
S711	1-554-078-00	SWITCH, SLIDE			
S801	1-554-303-00	SWITCH, KEY BOARD			
S802	1-554-303-00	SWITCH, KEY BOARD			
S803	1-554-303-00	SWITCH, KEY BOARD			
S804	1-554-303-00	SWITCH, KEY BOARD			
S805	1-554-303-00	SWITCH, KEY BOARD			
S806	1-554-303-00	SWITCH, KEY BOARD			
S807	1-554-424-00	SWITCH, PUSH			
AS1000	1-553-319-00	(US,Canadian)...SWITCH, PUSH (AC POWER)			
AS1000	1-553-318-00	(AEP,E).....SWITCH, PUSH (AC POWER)			
AS1000	1-553-447-00	(UK).....SWITCH, PUSH (AC POWER)			
T501	1-433-257-00	TRANSFORMER, BIAS OSCILLATOR			
AT1000	1-447-585-00	(US,Canadian)...TRANSFORMER, POWER			
AT1000	1-447-584-00	(AEP,UK).....TRANSFORMER, POWER			
AT1000	1-447-588-00	(E).....TRANSFORMER, POWER			
TH701	1-800-194-11	THERMISTORC/DIRECT-HEATING DISK			
TH702	1-800-194-11	THERMISTORC/DIRECT-HEATING DISK			
W2	1-535-115-00	TERMINAL			
W3	1-535-116-00	TERMINAL			
W4	1-535-117-00	TERMINAL			
W5	1-535-115-00	TERMINAL			
X701	1-527-822-00	OSCILLATOR, CERAMIC			
X702	1-527-973-00	OSCILLATOR, CERAMIC			

NOTE:

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- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (L-AAA-XXX-XX or L-AAA-XXX-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers.
- MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F: nonflammable

COILS

- MMH: mH, UH: μ H

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.

- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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CAPACITORS:

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- MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

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COILS

- MMH: mH, UH: μ H

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Sony Corporation
Consumer Products Group
Technical Support Dept.

9-951-107-11

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